```
=> fil reg; d stat que l35; d stat que l36; d stat que l38
FILE 'REGISTRY' ENTERED AT 16:33:48 ON 29 MAR 2010
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STRUCTURE FILE UPDATES:   28 MAR 2010  HIGHEST RN 1214990-69-8
DICTIONARY FILE UPDATES:  28 MAR 2010  HIGHEST RN 1214990-69-8

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TSCA INFORMATION NOW CURRENT THROUGH January 8, 2010.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html


L7           50 SEA FILE=REGISTRY SPE=ON  ABB=ON  25155-30-0/CRN
L8            2 SEA FILE=REGISTRY SPE=ON  ABB=ON  ("GLYCIDYL METHACRYLATE"/CN
                 OR "GLYCIDYL METHACRYLATE HOMOPOLYMER"/CN)
L9            3 SEA FILE=REGISTRY POLYLINK L8
L10           3 SEA FILE=REGISTRY SPE=ON  ABB=ON  (L8 OR L9)
L11             SEL  L10 1- RN :       3 TERMS
L12       20962 SEA FILE=REGISTRY SPE=ON  ABB=ON  L11/CRN
L14         587 SEA FILE=REGISTRY SPE=ON  ABB=ON  923-02-4/CRN
L27       22795 SEA FILE=REGISTRY SPE=ON  ABB=ON  103-11-7/CRN
L28       54890 SEA FILE=REGISTRY SPE=ON  ABB=ON  141-32-2/CRN
L35        6225 SEA FILE=REGISTRY SPE=ON  ABB=ON  (L27 OR L28) AND (L14 OR L7
                 OR L12)



L7           50 SEA FILE=REGISTRY SPE=ON  ABB=ON  25155-30-0/CRN
L8            2 SEA FILE=REGISTRY SPE=ON  ABB=ON  ("GLYCIDYL METHACRYLATE"/CN
                 OR "GLYCIDYL METHACRYLATE HOMOPOLYMER"/CN)
L9            3 SEA FILE=REGISTRY POLYLINK L8
L10           3 SEA FILE=REGISTRY SPE=ON  ABB=ON  (L8 OR L9)
L11             SEL  L10 1- RN :       3 TERMS
L12       20962 SEA FILE=REGISTRY SPE=ON  ABB=ON  L11/CRN
L14         587 SEA FILE=REGISTRY SPE=ON  ABB=ON  923-02-4/CRN
L15             STR
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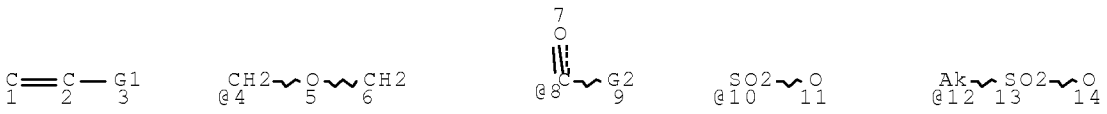
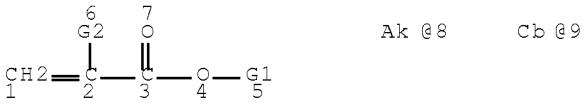



```
VAR G1=4/8/10/12
```

VAR G2=N/O
NODE ATTRIBUTES:
CONNECT IS E1 RC AT 11
CONNECT IS E2 RC AT 12
CONNECT IS E1 RC AT 14
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 14

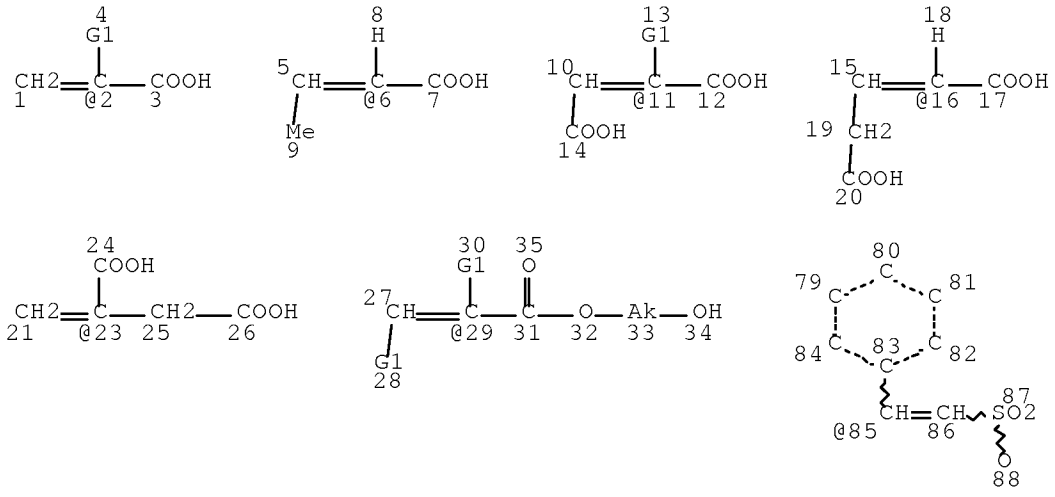
STEREO ATTRIBUTES: NONE
L17   SCR 2043
L19   420517 SEA FILE=REGISTRY SSS FUL L15 AND L17
L20   STR



VAR G1=8/9
VAR G2=H/ME
NODE ATTRIBUTES:
CONNECT IS E1 RC AT   8
DEFAULT MLEVEL IS ATOM
GGCAT   IS SAT AT   9
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS   9

STEREO ATTRIBUTES: NONE
L22   198213 SEA FILE=REGISTRY SUB=L19 SSS FUL L20
L31   STR



G4 101

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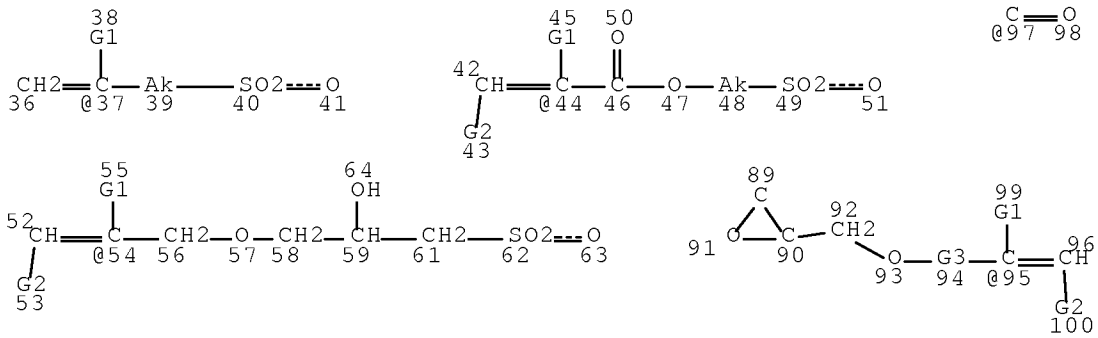

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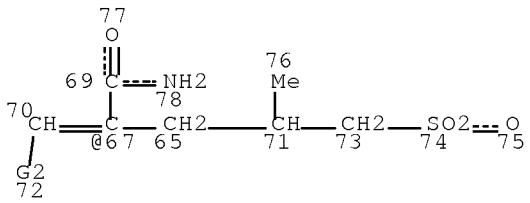


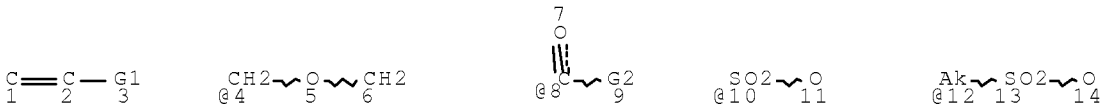
Page 3-A
VAR G1=H/ME
VAR G2=H/ME/COOH
VAR G3=CH2/97
VAR G4=2/6/11/16/23/29/37/44/54/85/67/95
NODE ATTRIBUTES:
CONNECT IS E2 RC AT 33
CONNECT IS E2 RC AT 39
CONNECT IS E1 RC AT 41
CONNECT IS E2 RC AT 48
CONNECT IS E1 RC AT 51
CONNECT IS E1 RC AT 63
CONNECT IS E1 RC AT 75
CONNECT IS E1 RC AT 88
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 97

STEREO ATTRIBUTES: NONE
L33 197550 SEA FILE=REGISTRY SUB=L19 SSS FUL L31
L34 48120 SEA FILE=REGISTRY SPE=ON ABB=ON 16.138/RID AND PMS/CI AND O>2
L36 112029 SEA FILE=REGISTRY SPE=ON ABB=ON L22 AND (L33 OR L34 OR L14 OR L7 OR L12)

L7 50 SEA FILE=REGISTRY SPE=ON ABB=ON 25155-30-0/CRN
L14 587 SEA FILE=REGISTRY SPE=ON ABB=ON 923-02-4/CRN

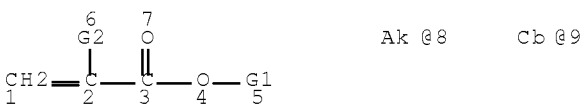
L15 STR



VAR G1=4/8/10/12
VAR G2=N/O
NODE ATTRIBUTES:
CONNECT IS E1 RC AT 11
CONNECT IS E2 RC AT 12
CONNECT IS E1 RC AT 14
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 14

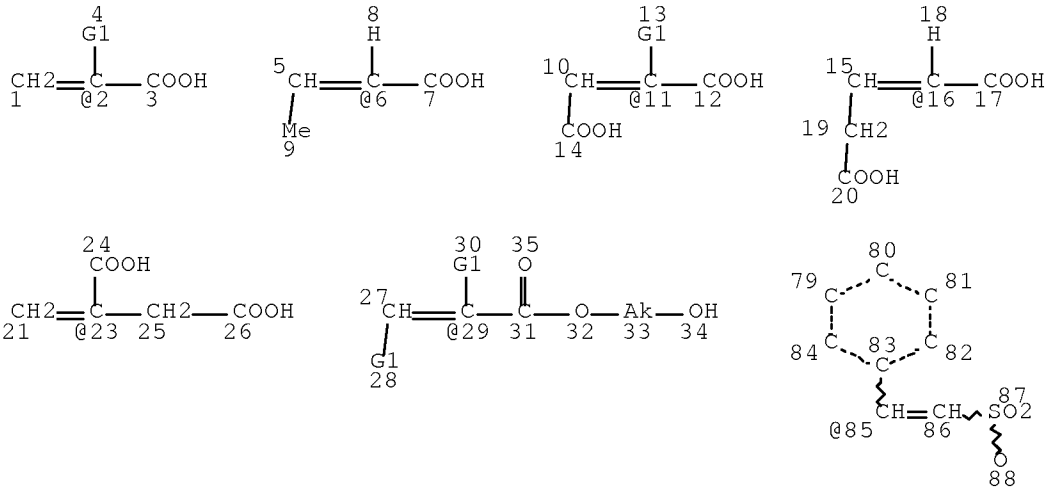
STEREO ATTRIBUTES: NONE
L17 SCR 2043
L19 420517 SEA FILE=REGISTRY SSS FUL L15 AND L17
L20 STR



VAR G1=8/9
VAR G2=H/ME
NODE ATTRIBUTES:
CONNECT IS E1 RC AT 8
DEFAULT MLEVEL IS ATOM
GGCAT IS SAT AT 9
DEFAULT ECLEVEL IS LIMITED

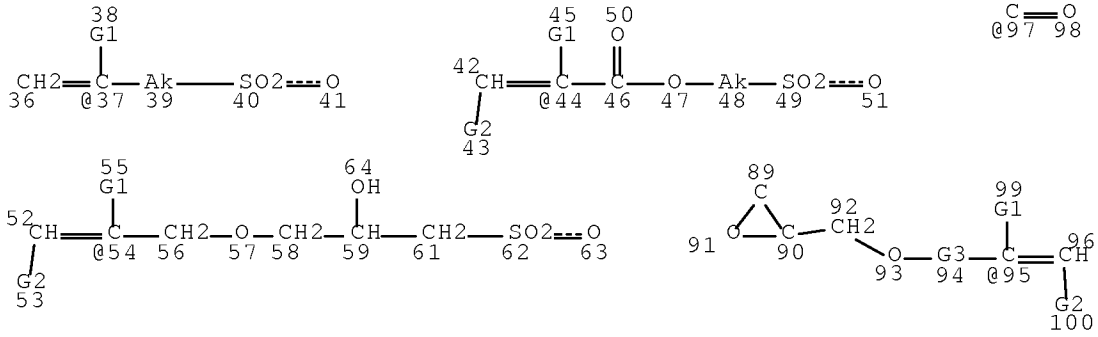
GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE
L22 198213 SEA FILE=REGISTRY SUB=L19 SSS FUL L20
L31 STR

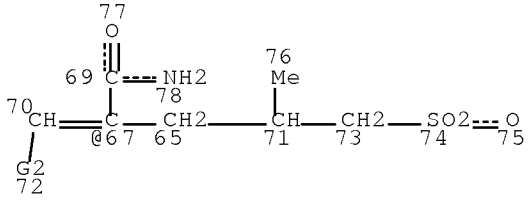


G4 101

Page 1-A



Page 2-A



Page 3-A
VAR G1=H/ME
VAR G2=H/ME/COOH
VAR G3=CH2/97
VAR G4=2/6/11/16/23/29/37/44/54/85/67/95
NODE ATTRIBUTES:
CONNECT IS E2 RC AT 33
CONNECT IS E2 RC AT 39
CONNECT IS E1 RC AT 41
CONNECT IS E2 RC AT 48
CONNECT IS E1 RC AT 51

```
CONNECT IS E1  RC AT  63
CONNECT IS E1  RC AT  75
CONNECT IS E1  RC AT  88
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  97

STEREO ATTRIBUTES: NONE
L33      197550 SEA FILE=REGISTRY SUB=L19 SSS FUL L31
L34       48120 SEA FILE=REGISTRY SPE=ON  ABB=ON  16.138/RID AND PMS/CI AND
                O>2
L38         296 SEA FILE=REGISTRY SPE=ON  ABB=ON  L22 AND (L34 OR L33) AND
                (L14 OR L7)


=> fil capl
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FILE COVERS 1907 - 29 Mar 2010  VOL 152 ISS 14
FILE LAST UPDATED: 28 Mar 2010  (20100328/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED:  Dec 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE:  Dec 2009

CAplus now includes complete International Patent Classification (IPC)
reclassification data for the first quarter of 2010.

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This file contains CAS Registry Numbers for easy and accurate
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'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

=> d que nos l58
L7            50 SEA FILE=REGISTRY SPE=ON  ABB=ON  25155-30-0/CRN
L8             2 SEA FILE=REGISTRY SPE=ON  ABB=ON  ("GLYCIDYL METHACRYLATE"/CN
                 OR "GLYCIDYL METHACRYLATE HOMOPOLYMER"/CN)
L9             3 SEA FILE=REGISTRY POLYLINK L8
L10            3 SEA FILE=REGISTRY SPE=ON  ABB=ON  (L8 OR L9)
L11              SEL  L10 1- RN :       3 TERMS
L12        20962 SEA FILE=REGISTRY SPE=ON  ABB=ON  L11/CRN
L14          587 SEA FILE=REGISTRY SPE=ON  ABB=ON  923-02-4/CRN
```

```
L27       22795 SEA FILE=REGISTRY SPE=ON  ABB=ON  103-11-7/CRN
L28       54890 SEA FILE=REGISTRY SPE=ON  ABB=ON  141-32-2/CRN
L35        6225 SEA FILE=REGISTRY SPE=ON  ABB=ON  (L27 OR L28) AND (L14 OR L7
                OR L12)
L48       64955 SEA FILE=CAPLUS SPE=ON  ABB=ON  CAPACITOR#/CW
L49       40291 SEA FILE=CAPLUS SPE=ON  ABB=ON  BINDERS+OLD/CT
L52        5714 SEA FILE=CAPLUS SPE=ON  ABB=ON  L35
L56      366578 SEA FILE=CAPLUS SPE=ON  ABB=ON  (CROSSLINK? OR CROSS LINK?)/BI

L58          50 SEA FILE=CAPLUS SPE=ON  ABB=ON  L52 AND L56 AND (L48 OR L49)


=> d que nos l55
L7           50 SEA FILE=REGISTRY SPE=ON  ABB=ON  25155-30-0/CRN
L8            2 SEA FILE=REGISTRY SPE=ON  ABB=ON  ("GLYCIDYL METHACRYLATE"/CN
                OR "GLYCIDYL METHACRYLATE HOMOPOLYMER"/CN)
L9            3 SEA FILE=REGISTRY POLYLINK L8
L10           3 SEA FILE=REGISTRY SPE=ON  ABB=ON  (L8 OR L9)
L11             SEL  L10 1- RN :       3 TERMS
L12       20962 SEA FILE=REGISTRY SPE=ON  ABB=ON  L11/CRN
L14         587 SEA FILE=REGISTRY SPE=ON  ABB=ON  923-02-4/CRN
L15             STR
L17             SCR 2043
L19      420517 SEA FILE=REGISTRY SSS FUL L15 AND L17
L20             STR
L22      198213 SEA FILE=REGISTRY SUB=L19 SSS FUL L20
L31             STR
L33      197550 SEA FILE=REGISTRY SUB=L19 SSS FUL L31
L34       48120 SEA FILE=REGISTRY SPE=ON  ABB=ON  16.138/RID AND PMS/CI AND
                O>2
L36      112029 SEA FILE=REGISTRY SPE=ON  ABB=ON  L22 AND (L33 OR L34 OR L14
                OR L7 OR L12)
L48       64955 SEA FILE=CAPLUS SPE=ON  ABB=ON  CAPACITOR#/CW
L49       40291 SEA FILE=CAPLUS SPE=ON  ABB=ON  BINDERS+OLD/CT
L53       92433 SEA FILE=CAPLUS SPE=ON  ABB=ON  L36
L55          14 SEA FILE=CAPLUS SPE=ON  ABB=ON  L53 AND L48 AND L49


=> d que nos l51
L7           50 SEA FILE=REGISTRY SPE=ON  ABB=ON  25155-30-0/CRN
L14         587 SEA FILE=REGISTRY SPE=ON  ABB=ON  923-02-4/CRN
L15             STR
L17             SCR 2043
L19      420517 SEA FILE=REGISTRY SSS FUL L15 AND L17
L20             STR
L22      198213 SEA FILE=REGISTRY SUB=L19 SSS FUL L20
L31             STR
L33      197550 SEA FILE=REGISTRY SUB=L19 SSS FUL L31
L34       48120 SEA FILE=REGISTRY SPE=ON  ABB=ON  16.138/RID AND PMS/CI AND
                O>2
L38         296 SEA FILE=REGISTRY SPE=ON  ABB=ON  L22 AND (L34 OR L33) AND
                (L14 OR L7)
L46         281 SEA FILE=CAPLUS SPE=ON  ABB=ON  L38
L48       64955 SEA FILE=CAPLUS SPE=ON  ABB=ON  CAPACITOR#/CW
L49       40291 SEA FILE=CAPLUS SPE=ON  ABB=ON  BINDERS+OLD/CT
L51          28 SEA FILE=CAPLUS SPE=ON  ABB=ON  L46 AND (L48 OR L49)


=> d que nos l80
L7           50 SEA FILE=REGISTRY SPE=ON  ABB=ON  25155-30-0/CRN
```

```
L8            2 SEA FILE=REGISTRY SPE=ON  ABB=ON  ("GLYCIDYL METHACRYLATE"/CN
                OR "GLYCIDYL METHACRYLATE HOMOPOLYMER"/CN)
L9            3 SEA FILE=REGISTRY POLYLINK L8
L10           3 SEA FILE=REGISTRY SPE=ON  ABB=ON  (L8 OR L9)
L11             SEL  L10 1- RN :       3 TERMS
L12       20962 SEA FILE=REGISTRY SPE=ON  ABB=ON  L11/CRN
L14         587 SEA FILE=REGISTRY SPE=ON  ABB=ON  923-02-4/CRN
L15             STR
L17             SCR 2043
L19      420517 SEA FILE=REGISTRY SSS FUL L15 AND L17
L20             STR
L22      198213 SEA FILE=REGISTRY SUB=L19 SSS FUL L20
L27       22795 SEA FILE=REGISTRY SPE=ON  ABB=ON  103-11-7/CRN
L28       54890 SEA FILE=REGISTRY SPE=ON  ABB=ON  141-32-2/CRN
L31             STR
L33      197550 SEA FILE=REGISTRY SUB=L19 SSS FUL L31
L34       48120 SEA FILE=REGISTRY SPE=ON  ABB=ON  16.138/RID AND PMS/CI AND
                O>2
L35        6225 SEA FILE=REGISTRY SPE=ON  ABB=ON  (L27 OR L28) AND (L14 OR L7
                OR L12)
L36      112029 SEA FILE=REGISTRY SPE=ON  ABB=ON  L22 AND (L33 OR L34 OR L14
                OR L7 OR L12)
L38         296 SEA FILE=REGISTRY SPE=ON  ABB=ON  L22 AND (L34 OR L33) AND
                (L14 OR L7)
L46         281 SEA FILE=CAPLUS SPE=ON  ABB=ON  L38
L48       64955 SEA FILE=CAPLUS SPE=ON  ABB=ON  CAPACITOR#/CW
L49       40291 SEA FILE=CAPLUS SPE=ON  ABB=ON  BINDERS+OLD/CT
L52        5714 SEA FILE=CAPLUS SPE=ON  ABB=ON  L35
L53       92433 SEA FILE=CAPLUS SPE=ON  ABB=ON  L36
L56      366578 SEA FILE=CAPLUS SPE=ON  ABB=ON  (CROSSLINK? OR CROSS LINK?)/BI

L66      197281 SEA FILE=CAPLUS SPE=ON  ABB=ON  ELECTRODE#/CW
L67       44983 SEA FILE=CAPLUS SPE=ON  ABB=ON  (DOUBLE LAYER?)/BI
L68         341 SEA FILE=CAPLUS SPE=ON  ABB=ON  (L46 OR L52 OR L53) AND L66
L69         130 SEA FILE=CAPLUS SPE=ON  ABB=ON  (L46 OR L52 OR L53) AND L67
L70         104 SEA FILE=CAPLUS SPE=ON  ABB=ON  (L46 OR L52 OR L53) AND L48
L71        1808 SEA FILE=CAPLUS SPE=ON  ABB=ON  (L46 OR L52 OR L53) AND L49
L72       17744 SEA FILE=CAPLUS SPE=ON  ABB=ON  (L46 OR L52 OR L53) AND L56
L73         126 SEA FILE=CAPLUS SPE=ON  ABB=ON  L68 AND (L69 OR L70 OR L71 OR
                L72)
L74          37 SEA FILE=CAPLUS SPE=ON  ABB=ON  L69 AND (L70 OR L71 OR L72)
L75          28 SEA FILE=CAPLUS SPE=ON  ABB=ON  L70 AND (L71 OR L72)
L76         349 SEA FILE=CAPLUS SPE=ON  ABB=ON  L71 AND L72
L77          25 SEA FILE=CAPLUS SPE=ON  ABB=ON  L73 AND (L74 OR L75 OR L76)
L78           4 SEA FILE=CAPLUS SPE=ON  ABB=ON  L74 AND (L75 OR L76)
L79           2 SEA FILE=CAPLUS SPE=ON  ABB=ON  L75 AND L76
L80          26 SEA FILE=CAPLUS SPE=ON  ABB=ON  (L77 OR L78 OR L79)


=> d que nos l83
L7            50 SEA FILE=REGISTRY SPE=ON  ABB=ON  25155-30-0/CRN
L8            2 SEA FILE=REGISTRY SPE=ON  ABB=ON  ("GLYCIDYL METHACRYLATE"/CN
                OR "GLYCIDYL METHACRYLATE HOMOPOLYMER"/CN)
L9            3 SEA FILE=REGISTRY POLYLINK L8
L10           3 SEA FILE=REGISTRY SPE=ON  ABB=ON  (L8 OR L9)
L11             SEL  L10 1- RN :       3 TERMS
L12       20962 SEA FILE=REGISTRY SPE=ON  ABB=ON  L11/CRN
L14         587 SEA FILE=REGISTRY SPE=ON  ABB=ON  923-02-4/CRN
L15             STR
L17             SCR 2043
```

```
L19      420517 SEA FILE=REGISTRY SSS FUL L15 AND L17
L20             STR
L22      198213 SEA FILE=REGISTRY SUB=L19 SSS FUL L20
L27       22795 SEA FILE=REGISTRY SPE=ON  ABB=ON  103-11-7/CRN
L28       54890 SEA FILE=REGISTRY SPE=ON  ABB=ON  141-32-2/CRN
L31             STR
L33      197550 SEA FILE=REGISTRY SUB=L19 SSS FUL L31
L34       48120 SEA FILE=REGISTRY SPE=ON  ABB=ON  16.138/RID AND PMS/CI AND
                O>2
L35        6225 SEA FILE=REGISTRY SPE=ON  ABB=ON  (L27 OR L28) AND (L14 OR L7
                OR L12)
L36      112029 SEA FILE=REGISTRY SPE=ON  ABB=ON  L22 AND (L33 OR L34 OR L14
                OR L7 OR L12)
L38         296 SEA FILE=REGISTRY SPE=ON  ABB=ON  L22 AND (L34 OR L33) AND
                (L14 OR L7)
L46         281 SEA FILE=CAPLUS SPE=ON  ABB=ON  L38
L48       64955 SEA FILE=CAPLUS SPE=ON  ABB=ON  CAPACITOR#/CW
L49       40291 SEA FILE=CAPLUS SPE=ON  ABB=ON  BINDERS+OLD/CT
L52        5714 SEA FILE=CAPLUS SPE=ON  ABB=ON  L35
L53       92433 SEA FILE=CAPLUS SPE=ON  ABB=ON  L36
L56      366578 SEA FILE=CAPLUS SPE=ON  ABB=ON  (CROSSLINK? OR CROSS LINK?)/BI

L66      197281 SEA FILE=CAPLUS SPE=ON  ABB=ON  ELECTRODE#/CW
L67       44983 SEA FILE=CAPLUS SPE=ON  ABB=ON  (DOUBLE LAYER?)/BI
L68         341 SEA FILE=CAPLUS SPE=ON  ABB=ON  (L46 OR L52 OR L53) AND L66
L69         130 SEA FILE=CAPLUS SPE=ON  ABB=ON  (L46 OR L52 OR L53) AND L67
L70         104 SEA FILE=CAPLUS SPE=ON  ABB=ON  (L46 OR L52 OR L53) AND L48
L71        1808 SEA FILE=CAPLUS SPE=ON  ABB=ON  (L46 OR L52 OR L53) AND L49
L72       17744 SEA FILE=CAPLUS SPE=ON  ABB=ON  (L46 OR L52 OR L53) AND L56
L73         126 SEA FILE=CAPLUS SPE=ON  ABB=ON  L68 AND (L69 OR L70 OR L71 OR
                L72)
L74          37 SEA FILE=CAPLUS SPE=ON  ABB=ON  L69 AND (L70 OR L71 OR L72)
L75          28 SEA FILE=CAPLUS SPE=ON  ABB=ON  L70 AND (L71 OR L72)
L76         349 SEA FILE=CAPLUS SPE=ON  ABB=ON  L71 AND L72
L83          12 SEA FILE=CAPLUS SPE=ON  ABB=ON  (L73 OR L74 OR L75 OR L76) AND
                L46


=> d que nos 186
L7           50 SEA FILE=REGISTRY SPE=ON  ABB=ON  25155-30-0/CRN
L8            2 SEA FILE=REGISTRY SPE=ON  ABB=ON  ("GLYCIDYL METHACRYLATE"/CN
                OR "GLYCIDYL METHACRYLATE HOMOPOLYMER"/CN)
L9            3 SEA FILE=REGISTRY POLYLINK L8
L10           3 SEA FILE=REGISTRY SPE=ON  ABB=ON  (L8 OR L9)
L11             SEL  L10 1- RN :       3 TERMS
L12       20962 SEA FILE=REGISTRY SPE=ON  ABB=ON  L11/CRN
L14         587 SEA FILE=REGISTRY SPE=ON  ABB=ON  923-02-4/CRN
L15             STR
L17             SCR 2043
L19      420517 SEA FILE=REGISTRY SSS FUL L15 AND L17
L20             STR
L22      198213 SEA FILE=REGISTRY SUB=L19 SSS FUL L20
L27       22795 SEA FILE=REGISTRY SPE=ON  ABB=ON  103-11-7/CRN
L28       54890 SEA FILE=REGISTRY SPE=ON  ABB=ON  141-32-2/CRN
L31             STR
L33      197550 SEA FILE=REGISTRY SUB=L19 SSS FUL L31
L34       48120 SEA FILE=REGISTRY SPE=ON  ABB=ON  16.138/RID AND PMS/CI AND
                O>2
L35        6225 SEA FILE=REGISTRY SPE=ON  ABB=ON  (L27 OR L28) AND (L14 OR L7
                OR L12)
```

```
L36      112029 SEA FILE=REGISTRY SPE=ON  ABB=ON  L22 AND (L33 OR L34 OR L14
                OR L7 OR L12)
L38         296 SEA FILE=REGISTRY SPE=ON  ABB=ON  L22 AND (L34 OR L33) AND
                (L14 OR L7)
L46         281 SEA FILE=CAPLUS SPE=ON  ABB=ON  L38
L48       64955 SEA FILE=CAPLUS SPE=ON  ABB=ON  CAPACITOR#/CW
L49       40291 SEA FILE=CAPLUS SPE=ON  ABB=ON  BINDERS+OLD/CT
L52        5714 SEA FILE=CAPLUS SPE=ON  ABB=ON  L35
L53       92433 SEA FILE=CAPLUS SPE=ON  ABB=ON  L36
L56      366578 SEA FILE=CAPLUS SPE=ON  ABB=ON  (CROSSLINK? OR CROSS LINK?)/BI

L66      197281 SEA FILE=CAPLUS SPE=ON  ABB=ON  ELECTRODE#/CW
L67       44983 SEA FILE=CAPLUS SPE=ON  ABB=ON  (DOUBLE LAYER?)/BI
L68         341 SEA FILE=CAPLUS SPE=ON  ABB=ON  (L46 OR L52 OR L53) AND L66
L69         130 SEA FILE=CAPLUS SPE=ON  ABB=ON  (L46 OR L52 OR L53) AND L67
L70         104 SEA FILE=CAPLUS SPE=ON  ABB=ON  (L46 OR L52 OR L53) AND L48
L71        1808 SEA FILE=CAPLUS SPE=ON  ABB=ON  (L46 OR L52 OR L53) AND L49
L72       17744 SEA FILE=CAPLUS SPE=ON  ABB=ON  (L46 OR L52 OR L53) AND L56
L73         126 SEA FILE=CAPLUS SPE=ON  ABB=ON  L68 AND (L69 OR L70 OR L71 OR
                L72)
L74          37 SEA FILE=CAPLUS SPE=ON  ABB=ON  L69 AND (L70 OR L71 OR L72)
L75          28 SEA FILE=CAPLUS SPE=ON  ABB=ON  L70 AND (L71 OR L72)
L76         349 SEA FILE=CAPLUS SPE=ON  ABB=ON  L71 AND L72
L86          60 SEA FILE=CAPLUS SPE=ON  ABB=ON  L35 AND (L73 OR L74 OR L75 OR
                L76)


=> s l58,l55,l51,l80,l83,l86
L91         106 (L58 OR L55 OR L51 OR L80 OR L83 OR L86)

=> s l91 and patent/dt
       7122492 PATENT/DT
L92         102 L91 AND PATENT/DT

=> s l91 not l92
L93           4 L91 NOT L92

=> s l92 and (pd<20031024 or ad<20031024 or prd<20031024)
      23942190 PD<20031024
                (PD<20031024)
       4765631 AD<20031024
                (AD<20031024)
       4238406 PRD<20031024
                (PRD<20031024)
L94          60 L92 AND (PD<20031024 OR AD<20031024 OR PRD<20031024)

=> s l93,l94
L95          64 (L93 OR L94)

=> d ibib abs hitind hitstr l95 1-64; fil hom

L95  ANSWER 1 OF 64  CAPLUS  COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER:         2009:909090  CAPLUS  Full-text
DOCUMENT NUMBER:          152:241290
TITLE:                    Synthesis of nano-sized core-shell acrylate latex 2ith
                          crosslinkable double-layer
                          shell
AUTHOR(S):                Zhang, Shengwen; Qiu, Teng; Cui, Jiamin; Li, Xiaoyu
CORPORATE SOURCE:         School of Materials Science and Engineering, Key
                          Laboratory for Nanomaterials, Ministry of Education,
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Beijing University of Chemical Technology, Beijing, 100029, Peop. Rep. China
SOURCE: PMSE Preprints (2009), 101, 1510-1511
CODEN: PPMRA9; ISSN: 1550-6703
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal; (computer optical disk)
LANGUAGE: English

AB Nano-sized core-shell acrylate latex was synthesized with double -layer shell by emulsion polymerization Via an improved seed semi-continuously emulsion polymerization method, GMA and MAA was introduced into the middle layer and the outer shell, resp., and the size of the latex was controlled to be 65nm with the low emulsifying agent concentration (1.8%). The polymerization process was monitored by DLS. The coating film from the nano-emulsions was further characterized.

CC 42-7 (Coatings, Inks, and Related Products)

IT Polymerization
(emulsion; synthesis of nano-sized core-shell acrylate latex 2ith crosslinkable double-layer shell)

IT Coating materials
(impact- and water-resistant; synthesis of nano-sized core-shell acrylate latex 2ith crosslinkable double-layer shell)

IT Stability
(mech.; synthesis of nano-sized core-shell acrylate latex 2ith crosslinkable double-layer shell)

IT Adhesion, physical
Flexibility
Luster
Mechanical hardness
Nanoemulsions
Particle size distribution
Polymer morphology
Viscosity
(synthesis of nano-sized core-shell acrylate latex 2ith crosslinkable double-layer shell)

IT Coating materials
(water-thinned; synthesis of nano-sized core-shell acrylate latex 2ith crosslinkable double-layer shell)

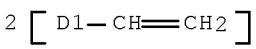
IT 1207270-68-5DP, partially-hydrolyzed
RL: NANO (Nanomaterial); PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(core-shell; synthesis of nano-sized core-shell acrylate latex 2ith crosslinkable double-layer shell)

IT 1207270-68-5DP, partially-hydrolyzed
RL: NANO (Nanomaterial); PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(core-shell; synthesis of nano-sized core-shell acrylate latex 2ith crosslinkable double-layer shell)

RN 1207270-68-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

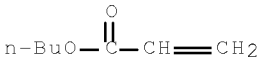
CM 1

CRN 1321-74-0
CMF C10 H10
CCI IDS



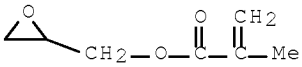
CM 2

CRN 141-32-2
CMF C7 H12 O2



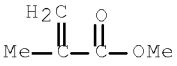
CM 3

CRN 106-91-2
CMF C7 H10 O3



CM 4

CRN 80-62-6
CMF C5 H8 O2



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 2 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2007:1159102 CAPLUS Full-text
DOCUMENT NUMBER: 148:451099
TITLE: Novel pigment composition and process for the preparation thereof
INVENTOR(S): Bhagwat, Madhusudan Madan; Shukla, Brajesh; Bajaj, Pushpa; Acharya, Badri Narayan; Chavan, Raosaheb Balvantrao; Jassal, Manjit
PATENT ASSIGNEE(S): Jubilant Organosys Limited, India; Indian Institute of Technology

SOURCE: Indian Pat. Appl., 17pp.
CODEN: INXXBQ
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IN 2002DE00275	A	20071005	IN 2002-DE275	20020321 <--

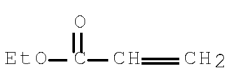
PRIORITY APPLN. INFO.: IN 2002-DE275 20020321 <--

AB A process for the preparation of novel copolymers for use as thickeners and/binders in textile printing comprises copolymg. (a) at least 10% by wt of one or more carboxylic acid monomer of the kind such as herein described with (b) up to 90% by wt of one or more comonomers consisting of vinyl compds. or mixts. thereof. This thickener is an alkali swellable cross-linked polymer having both hydrophilic and hydrophobic segments. The synthetic thickener is provided in the form of an emulsion polymer using processors available in the form of emulsion which also gives thickening effect.

IC ICM C09B067-00
CC 40-6 (Textiles and Fibers)
Section cross-reference(s): 42
IT Binders
Latex
Thickening agents
(novel pigment composition and process for the preparation thereof)
IT 25212-88-8P, Ethyl acrylate-methacrylic acid copolymer
28411-49-6P, Diallyl phathalate-ethyl acrylate-methacrylic acid copolymer 30141-22-1P, Butyl acrylate-hydroxymethyl methacrylamide-methacrylic acid copolymer 1018957-20-4P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(novel pigment composition and process for the preparation thereof)
IT 25212-88-8P, Ethyl acrylate-methacrylic acid copolymer
28411-49-6P, Diallyl phathalate-ethyl acrylate-methacrylic acid copolymer 30141-22-1P, Butyl acrylate-hydroxymethyl methacrylamide-methacrylic acid copolymer 1018957-20-4P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(novel pigment composition and process for the preparation thereof)
RN 25212-88-8 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate (CA INDEX NAME)

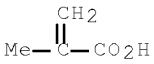
CM 1

CRN 140-88-5
CMF C5 H8 O2



CM 2

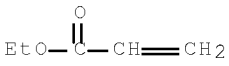
CRN 79-41-4
CMF C4 H6 O2



RN 28411-49-6 CAPLUS
CN 1,2-Benzenedicarboxylic acid, 1,2-di-2-propen-1-yl ester, polymer with ethyl 2-propenoate and 2-methyl-2-propenoic acid (CA INDEX NAME)

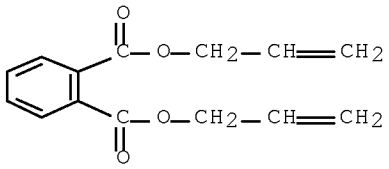
CM 1

CRN 140-88-5
CMF C5 H8 O2



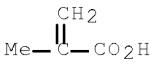
CM 2

CRN 131-17-9
CMF C14 H14 O4



CM 3

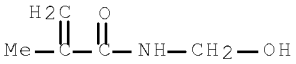
CRN 79-41-4
CMF C4 H6 O2



RN 30141-22-1 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate and N-(hydroxymethyl)-2-methyl-2-propenamide (CA INDEX NAME)

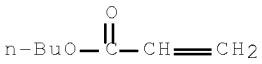
CM 1

CRN 923-02-4
CMF C5 H9 N O2



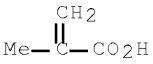
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

CRN 79-41-4
CMF C4 H6 O2

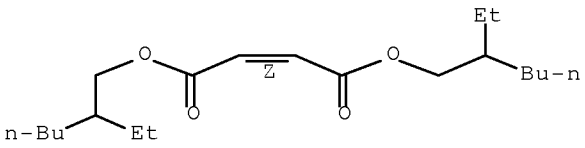


RN 1018957-20-4 CAPLUS
CN 1,2-Benzenedicarboxylic acid, 1,2-di-2-propen-1-yl ester, polymer with 1,4-bis(2-ethylhexyl) (2Z)-2-butenedioate, ethyl 2-propenoate and 2-methyl-2-propenoic acid (CA INDEX NAME)

CM 1

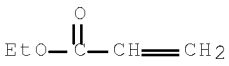
CRN 142-16-5
CMF C20 H36 O4

Double bond geometry as shown.



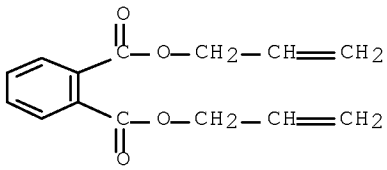
CM 2

CRN 140-88-5
CMF C5 H8 O2



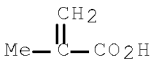
CM 3

CRN 131-17-9
CMF C14 H14 O4



CM 4

CRN 79-41-4
CMF C4 H6 O2



L95 ANSWER 3 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2006:446219 CAPLUS Full-text
DOCUMENT NUMBER: 144:479494
TITLE: Supercapacitor having electrode material comprising single-wall carbon nanotubes and process for making the same
INVENTOR(S): Liu, Tao; Kumar, Satish
PATENT ASSIGNEE(S): Georgia Tech Research Corporation, USA
SOURCE: U.S. Pat. Appl. Publ., 19 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060098389	A1	20060511	US 2003-609725	20030630 <--
US 7061749	B2	20060613		

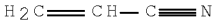
PRIORITY APPLN. INFO.: US 2002-393270P P 20020701 <--
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
AB The invention relates to a supercapacitor, also known as an elec. double-layer capacitor or ultracapacitor, having electrode material comprising single-wall carbon nanotubes. The carbon nanotubes can be derivatized with functional groups. The electrode material is made by preparing a polymer-nanotube

suspension comprising polymer and nanotubes, forming the polymer-nanotube suspension into a polymer-nanotube composite of the desired form, carbonizing the polymer-nanotube composite to form a carbonaceous polymer-nanotube material, and activating the material. The supercapacitor includes electrode material comprising activated carbonaceous polymer-nanotube material in contact with current collectors and permeated with an electrolyte, which may be either fluid or solid. In the case of a fluid or compressible electrolyte, an electrolyte-permeable separator or spacer is interposed between the electrodes to keep the electrodes from shorting. The supercapacitor made with electrodes comprising underivatized single-wall carbon nanotubes and polymer that has been carbonized and activated appears to operate as a non-Faradaic supercapacitor.

INCL 361502000
CC 76-10 (Electric Phenomena)
IT Capacitor electrodes
Capacitors
(double layer; supercapacitor having electrode material comprising single-wall carbon nanotubes and process for making)
IT Electrolytic capacitors
(super-; supercapacitor having electrode material comprising single-wall carbon nanotubes and process for making)
IT Capacitor electrodes
Electrolytes
(supercapacitor having electrode material comprising single-wall carbon nanotubes and process for making)
IT 9002-85-1, Polyvinylidene chloride 9002-86-2, Polyvinylchloride 24968-79-4, Acrylonitrile-methyl acrylate copolymer 25014-41-9, Polyacrylonitrile 27056-80-0, Acrylonitrile-itaconic acid-methyl acrylate copolymer
RL: RCT (Reactant); RACT (Reactant or reagent)
(supercapacitor having electrode material comprising single-wall carbon nanotubes and process for making)
IT 27056-80-0, Acrylonitrile-itaconic acid-methyl acrylate copolymer
RL: RCT (Reactant); RACT (Reactant or reagent)
(supercapacitor having electrode material comprising single-wall carbon nanotubes and process for making)
RN 27056-80-0 CAPLUS
CN Butanedioic acid, 2-methylene-, polymer with methyl 2-propenoate and 2-propenenitrile (CA INDEX NAME)

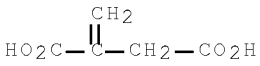
CM 1

CRN 107-13-1
CMF C3 H3 N



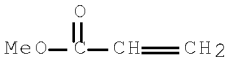
CM 2

CRN 97-65-4
CMF C5 H6 O4



CM 3

CRN 96-33-3
CMF C4 H6 O2



OS.CITING REF COUNT: 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS RECORD (13 CITINGS)
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 4 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005:253567 CAPLUS Full-text
DOCUMENT NUMBER: 142:302077
TITLE: Ceramic green sheet, and its use in multilayer ceramic electronic component and its manufacture
INVENTOR(S): Ito, Eiji; Sawada, Akemi
PATENT ASSIGNEE(S): Murata Mfg. Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005075673	A	20050324	JP 2003-306831	20030829 <--

PRIORITY APPLN. INFO.: JP 2003-306831 20030829 <--

AB The sheet contains ceramic powder and a binder with crystalline side chain content 60-90 weight%. The electronic component is manufactured by mixing ceramic powder with the binder and a solvent to give a slurry, forming the slurry to green sheets, stacking and press-bonding the sheets, and firing the resulting laminate. The green sheets have improved adhesion to prevent peeling of the electronic component.

IC ICM C04B035-632
ICS H01G004-12; H01G004-30
CC 57-2 (Ceramics)
Section cross-reference(s): 76
IT Binders
Electric apparatus
(ceramic green sheet containing binder with crystalline side chain for manufacture of
multilayer ceramic electronic component)
IT Ceramic capacitors
(multilayer; ceramic green sheet containing binder with crystalline side chain
for manufacture of multilayer ceramic electronic component)
IT 27756-15-6, Acrylic acid-stearyl methacrylate copolymer

147026-71-9, Acrylic acid-ethyl methacrylate-stearyl methacrylate copolymer 847939-38-2, Acrylic acid-ethyl methacrylate-methyl acrylate-stearyl methacrylate copolymer 847939-40-6, Acrylic acid-ethyl methacrylate-methyl acrylate-naphthyl methacrylate copolymer 847939-42-8, Acrylic acid-ethyl methacrylate-heptadecyl methacrylate-methyl acrylate copolymer
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(binder; ceramic green sheet containing binder with crystalline side chain for
manufacture of multilayer ceramic electronic component)

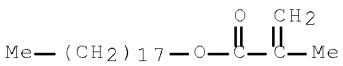
IT 72058-59-4, Acrylic acid-ethyl methacrylate-methyl acrylate copolymer
RL: TEM (Technical or engineered material use); USES (Uses)
(binder; ceramic green sheet containing binder with crystalline side chain for
manufacture of multilayer ceramic electronic component)

IT 27756-15-6, Acrylic acid-stearyl methacrylate copolymer
147026-71-9, Acrylic acid-ethyl methacrylate-stearyl methacrylate copolymer 847939-38-2, Acrylic acid-ethyl methacrylate-methyl acrylate-stearyl methacrylate copolymer 847939-40-6, Acrylic acid-ethyl methacrylate-methyl acrylate-naphthyl methacrylate copolymer 847939-42-8, Acrylic acid-ethyl methacrylate-heptadecyl methacrylate-methyl acrylate copolymer
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(binder; ceramic green sheet containing binder with crystalline side chain for
manufacture of multilayer ceramic electronic component)

RN 27756-15-6 CAPLUS
CN 2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 2-propenoic acid (CA INDEX NAME)

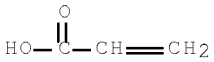
CM 1

CRN 32360-05-7
CMF C22 H42 O2



CM 2

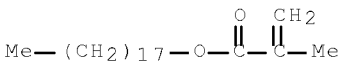
CRN 79-10-7
CMF C3 H4 O2



RN 147026-71-9 CAPLUS
CN 2-Propenoic acid, 2-methyl-, ethyl ester, polymer with octadecyl 2-methyl-2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

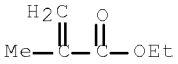
CM 1

CRN 32360-05-7
CMF C22 H42 O2



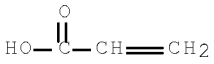
CM 2

CRN 97-63-2
CMF C6 H10 O2



CM 3

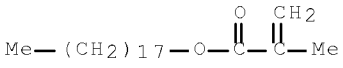
CRN 79-10-7
CMF C3 H4 O2



RN 847939-38-2 CAPLUS
CN 2-Propenoic acid, 2-methyl-, ethyl ester, polymer with methyl 2-propenoate, octadecyl 2-methyl-2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

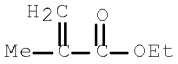
CM 1

CRN 32360-05-7
CMF C22 H42 O2



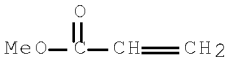
CM 2

CRN 97-63-2
CMF C6 H10 O2



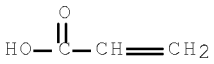
CM 3

CRN 96-33-3
CMF C4 H6 O2



CM 4

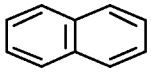
CRN 79-10-7
CMF C3 H4 O2

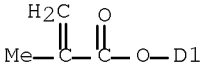


RN 847939-40-6 CAPLUS
CN 2-Propenoic acid, 2-methyl-, ethyl ester, polymer with methyl 2-propenoate, naphthalenyl 2-methyl-2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

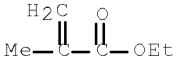
CRN 30996-20-4
CMF C14 H12 O2
CCI IDS





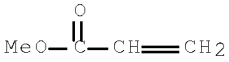
CM 2

CRN 97-63-2
CMF C6 H10 O2



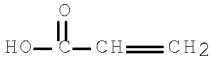
CM 3

CRN 96-33-3
CMF C4 H6 O2



CM 4

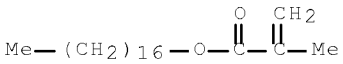
CRN 79-10-7
CMF C3 H4 O2



RN 847939-42-8 CAPLUS
CN 2-Propenoic acid, 2-methyl-, ethyl ester, polymer with heptadecyl 2-methyl-2-propenoate, methyl 2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

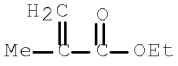
CM 1

CRN 6140-75-6
CMF C21 H40 O2



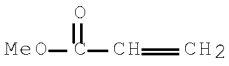
CM 2

CRN 97-63-2
CMF C6 H10 O2



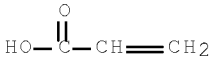
CM 3

CRN 96-33-3
CMF C4 H6 O2



CM 4

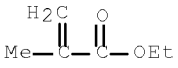
CRN 79-10-7
CMF C3 H4 O2



IT 72058-59-4, Acrylic acid-ethyl methacrylate-methyl acrylate copolymer
RL: TEM (Technical or engineered material use); USES (Uses)
(binder; ceramic green sheet containing binder with crystalline side chain for
manufacture of multilayer ceramic electronic component)
RN 72058-59-4 CAPLUS
CN 2-Propenoic acid, 2-methyl-, ethyl ester, polymer with methyl 2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

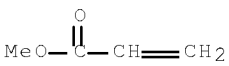
CM 1

CRN 97-63-2
CMF C6 H10 O2



CM 2

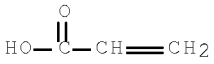
CRN 96-33-3
CMF C4 H6 O2



CM 3

CRN 79-10-7

CMF C3 H4 O2



L95 ANSWER 5 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005:216247 CAPLUS Full-text
DOCUMENT NUMBER: 142:289655
TITLE: Electrode layer forming material , electrode layer, its manufacture, the electrode, and electrochemical device
INVENTOR(S): Mori, Hidekazu; Yamakawa, Masahiro
PATENT ASSIGNEE(S): Nippon Zeon Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005063846	A	20050310	JP 2003-293316	20030814 <--

PRIORITY APPLN. INFO.: JP 2003-293316 20030814 <--

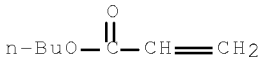
AB The material, especially for a battery or a capacitor, is obtained by mixing an electrode active mass with polymer particles which contains a conductive aid and a binder. The material is manufactured by mixing the conductive aid with a polymerizable monomer to obtain a monomer composition; dispersion polymerizing, emulsion polymerizing, suspension polymerizing or micro-suspension polymerizing the composition in an aqueous medium to obtain polymer particles; and mixing the polymer particles with the an electrode active mass. The electrode layer is obtained by molding the above material. The electrode has the above electrode layer laminated on a conductive substrate. The device, especially a double-layer capacitor, is obtained by mixing an electrode active mass with polymer particles which contains an electrode structure, obtained by laminating or winding the above electrode, a case storing an electrolyte and the electrode structure, and a sealing body sealing the opening of the case.

IC ICM H01M004-02
ICS H01G009-00; H01G009-058; H01G009-155; H01G009-22; H01M004-04; H01M004-06; H01M004-62
CC 76-10 (Electric Phenomena)
Section cross-reference(s): 52
IT Battery electrodes
Capacitor electrodes
(compns. and manufacture of electrode materials for batteries and double layer capacitors)
IT Carbon black, uses
RL: DEV (Device component use); USES (Uses)
(compns. and manufacture of electrode materials for batteries and double layer capacitors)
IT Capacitors
(double layer; compns. and manufacture of electrode materials for batteries and double layer capacitors)
IT 7440-44-0, Activated carbon, uses

RL: DEV (Device component use); USES (Uses)
(activated; compns. and manufacture of electrode materials for batteries and
double layer capacitors)
IT 7440-06-4, Platinum, uses 25036-16-2, Butyl
acrylate-methacrylic acid-styrene copolymer
RL: DEV (Device component use); USES (Uses)
(compns. and manufacture of electrode materials for batteries and
double layer capacitors)
IT 25036-16-2, Butyl acrylate-methacrylic acid-styrene copolymer
RL: DEV (Device component use); USES (Uses)
(compns. and manufacture of electrode materials for batteries and
double layer capacitors)
RN 25036-16-2 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate and
ethenylbenzene (CA INDEX NAME)

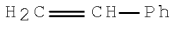
CM 1

CRN 141-32-2
CMF C7 H12 O2



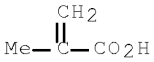
CM 2

CRN 100-42-5
CMF C8 H8



CM 3

CRN 79-41-4
CMF C4 H6 O2



L95 ANSWER 6 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005:121238 CAPLUS Full-text
DOCUMENT NUMBER: 142:199547
TITLE: Binder with good smoothness, crack resistance, and
binding properties for electrical double
layer capacitor electrodes
INVENTOR(S): Yamakawa, Masahiro; Mori, Hidekazu

PATENT ASSIGNEE(S): Zeon Corporation, Japan
SOURCE: PCT Int. Appl., 24 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005013298	A1	20050210	WO 2004-JP11503	20040804 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CN 1830044	A	20060906	CN 2004-80021968	20040804 <--
CN 100552842	C	20091021		
KR 2006058697	A	20060530	KR 2006-702329	20060202 <--
US 20080011986	A1	20080117	US 2007-567119	20070118 <--

PRIORITY APPLN. INFO.: JP 2003-286176 A 20030804 <--
WO 2004-JP11503 W 20040804

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB A binder consists of a copolymer with glass transition temperature ≤10° comprising (A) monomer units derived from ≥1 compound CH2:CR1COOR2, which the glass transition temperature of the homopolymer is lower than 0° and (B) monomer units derived from ≥1 compound selected from alkyl acrylates, alkyl methacrylates, aromatic vinyl compds., and α,β-unsatd. nitriles, which the glass transition temperature of the homopolymer is higher than 0° (A + B = ≥90% based on total polymers), wherein R1 = H or Me and R2 = alkyl or cycloalkyl. Thus, 2-ethylhexyl acrylate 83, acrylonitrile 15, and methacrylic acid 2% were polymerized to give a 30%-solids copolymer solution with glass transition temperature -44° and particle diameter 130 nm, aqueous ammonia solution was added therein, 12.5 parts of which (total solid content 40%) was mixed with activated charcoal powder 100, Ketjen Black 1.5, and acetylene black 3, and DN 10L CM-cellulose ammonium salt 2 parts, water was added therein (total solid content 41%), applied on an aluminum foil, dried at 80° for 30 min, and pressed to give an electrode, which was fabricated into a capacitor, showing surface roughness 1.4 μm, peel strength 0.1 N/cm, internal resistance 3.3 Ω, and good crack and electrolyte resistance.

IC ICM H01G009-058
ICS C08F220-18
CC 38-3 (Plastics Fabrication and Uses)
Section cross-reference(s): 76
ST binder smoothness crack resistance binding property; elec double layer capacitor electrode; ethylhexyl acrylate acrylonitrile methacrylic acid copolymer ammonium salt prepn
IT Capacitors
(double layer; preparation of binders with good smoothness, crack resistance, and binding properties for elec. double layer capacitor electrodes)
IT Binders
Electrodes

(preparation of binders with good smoothness, crack resistance, and binding properties for elec. double layer capacitor electrodes)

IT Acrylic polymers, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(preparation of binders with good smoothness, crack resistance, and binding properties for elec. double layer capacitor electrodes)

IT 35919-18-7P 37001-63-1P, 2-Ethylhexyl acrylate-methacrylic acid-methyl methacrylate copolymer ammonium salt 42884-82-2P, Butyl acrylate-methacrylic acid-methyl methacrylate copolymer ammonium salt 53754-89-5P 58479-12-2P, 2-Ethylhexyl acrylate-methacrylic acid-styrene copolymer ammonium salt 69572-24-3P, Acrylonitrile-2-ethylhexyl acrylate-methacrylic acid copolymer ammonium salt
RL: DEV (Device component use); IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation of binders with good smoothness, crack resistance, and binding properties for elec. double layer capacitor electrodes)

IT 37001-63-1P, 2-Ethylhexyl acrylate-methacrylic acid-methyl methacrylate copolymer ammonium salt 42884-82-2P, Butyl acrylate-methacrylic acid-methyl methacrylate copolymer ammonium salt 58479-12-2P, 2-Ethylhexyl acrylate-methacrylic acid-styrene copolymer ammonium salt 69572-24-3P, Acrylonitrile-2-ethylhexyl acrylate-methacrylic acid copolymer ammonium salt
RL: DEV (Device component use); IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation of binders with good smoothness, crack resistance, and binding properties for elec. double layer capacitor electrodes)

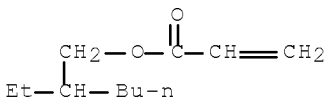
RN 37001-63-1 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with 2-ethylhexyl 2-propenoate and methyl 2-methyl-2-propenoate, ammonium salt (CA INDEX NAME)

CM 1

CRN 25133-98-6
CMF (C11 H20 O2 . C5 H8 O2 . C4 H6 O2)x
CCI PMS

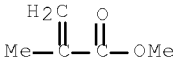
CM 2

CRN 103-11-7
CMF C11 H20 O2



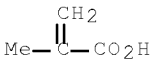
CM 3

CRN 80-62-6
CMF C5 H8 O2



CM 4

CRN 79-41-4
CMF C4 H6 O2



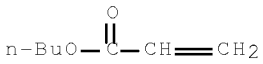
RN 42884-82-2 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate and methyl 2-methyl-2-propenoate, ammonium salt (CA INDEX NAME)

CM 1

CRN 25035-69-2
CMF (C7 H12 O2 . C5 H8 O2 . C4 H6 O2)x
CCI PMS

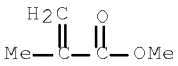
CM 2

CRN 141-32-2
CMF C7 H12 O2



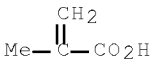
CM 3

CRN 80-62-6
CMF C5 H8 O2



CM 4

CRN 79-41-4
CMF C4 H6 O2



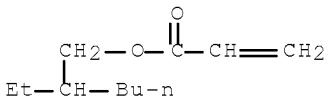
RN 58479-12-2 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with ethenylbenzene and 2-ethylhexyl 2-propenoate, ammonium salt (CA INDEX NAME)

CM 1

CRN 26636-08-8
CMF (C11 H20 O2 . C8 H8 . C4 H6 O2)x
CCI PMS

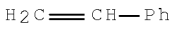
CM 2

CRN 103-11-7
CMF C11 H20 O2



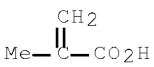
CM 3

CRN 100-42-5
CMF C8 H8



CM 4

CRN 79-41-4
CMF C4 H6 O2



RN 69572-24-3 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with 2-ethylhexyl 2-propenoate and 2-propenenitrile, ammonium salt (9CI) (CA INDEX NAME)

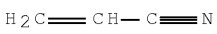
CM 1

CRN 26636-10-2
CMF (C11 H20 O2 . C4 H6 O2 . C3 H3 N)x

CCI PMS

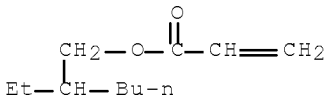
CM 2

CRN 107-13-1
CMF C3 H3 N



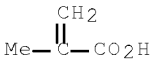
CM 3

CRN 103-11-7
CMF C11 H20 O2



CM 4

CRN 79-41-4
CMF C4 H6 O2



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 7 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2004:392345 CAPLUS Full-text
DOCUMENT NUMBER: 140:398487
TITLE: Method for producing water-soluble acrylic binder, ceramic slurry composition, and monolithic ceramic electronic parts
INVENTOR(S): Takata, Masachika; Kodou, Masaru; Miyazaki, Makoto; Tanaka, Satoru
PATENT ASSIGNEE(S): Japan
SOURCE: U.S. Pat. Appl. Publ., 18 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

US 20040092652	A1	20040513	US 2003-703468		20031110 <--
JP 2005060208	A	20050310	JP 2003-317882		20030910 <--
TW 248457	B	20060201	TW 2003-92129761		20031027 <--
CN 1508209	A	20040630	CN 2003-10114101		20031105 <--
CN 1219014	C	20050914			
KR 2004041036	A	20040513	KR 2003-78336		20031106 <--
US 20050206049	A1	20050922	US 2005-132351		20050519 <--
PRIORITY APPLN. INFO.:			JP 2002-324798	A	20021108 <--
			JP 2003-201773	A	20030725 <--
			JP 2003-317882	A	20030910 <--
			US 2003-703468	A3	20031110

AB A ceramic slurry composition contains a mixture of a ceramic raw material powder, a water-soluble acrylic binder and water. A resin component of the water-soluble acrylic binder has a weight average mol. weight of about 10,000 to 500,000 and an inertial square radius in water of about 100 nm or less, and the alc. content of the water-soluble acrylic binder is about 5% by weight or less when the resin content is 40% by weight The pH of the ceramic slurry composition is preferably controlled to about 8.5 to 10.

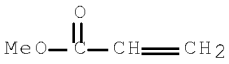
IC ICM C08K003-00
INCL 524556000
CC 76-10 (Electric Phenomena)
Section cross-reference(s): 38, 57
IT Binders
Capacitor electrodes
Ceramic capacitors
Ceramics
(method for producing water-soluble acrylic binder, ceramic slurry composition,
and monolithic ceramic electronic parts)
IT 12047-27-7P, Barium titanium oxide, uses 38811-87-9P, Acrylic acid-methyl acrylate-methyl methacrylate copolymer ammonium salt 42262-65-7P, Acrylic acid-methyl acrylate copolymer ammonium salt 57167-10-9P, Acrylic acid-butyl acrylate copolymer ammonium salt 72863-11-7P, Acrylic acid-ethyl acrylate copolymer ammonium salt
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(method for producing water-soluble acrylic binder, ceramic slurry composition,
and monolithic ceramic electronic parts)
IT 61887-40-9, Methacrylic acid-methyl acrylate copolymer ammonium salt
RL: TEM (Technical or engineered material use); USES (Uses)
(method for producing water-soluble acrylic binder, ceramic slurry composition,
and monolithic ceramic electronic parts)
IT 38811-87-9P, Acrylic acid-methyl acrylate-methyl methacrylate copolymer ammonium salt 42262-65-7P, Acrylic acid-methyl acrylate copolymer ammonium salt 57167-10-9P, Acrylic acid-butyl acrylate copolymer ammonium salt 72863-11-7P, Acrylic acid-ethyl acrylate copolymer ammonium salt
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(method for producing water-soluble acrylic binder, ceramic slurry composition,
and monolithic ceramic electronic parts)
RN 38811-87-9 CAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with methyl 2-propenoate and 2-propenoic acid, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 27155-22-2
CMF (C5 H8 O2 . C4 H6 O2 . C3 H4 O2)x
CCI PMS

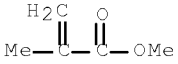
CM 2

CRN 96-33-3
CMF C4 H6 O2



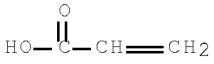
CM 3

CRN 80-62-6
CMF C5 H8 O2



CM 4

CRN 79-10-7
CMF C3 H4 O2



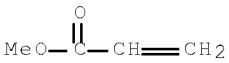
RN 42262-65-7 CAPLUS
CN 2-Propenoic acid, polymer with methyl 2-propenoate, ammonium salt (CA INDEX NAME)

CM 1

CRN 25302-81-2
CMF (C4 H6 O2 . C3 H4 O2)x
CCI PMS

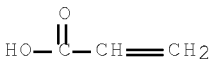
CM 2

CRN 96-33-3
CMF C4 H6 O2



CM 3

CRN 79-10-7
CMF C3 H4 O2



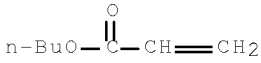
RN 57167-10-9 CAPLUS
CN 2-Propenoic acid, polymer with butyl 2-propenoate, ammonium salt (CA INDEX NAME)

CM 1

CRN 25119-83-9
CMF (C7 H12 O2 . C3 H4 O2)x
CCI PMS

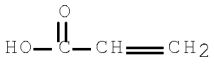
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

CRN 79-10-7
CMF C3 H4 O2



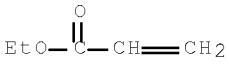
RN 72863-11-7 CAPLUS
CN 2-Propenoic acid, polymer with ethyl 2-propenoate, ammonium salt (CA INDEX NAME)

CM 1

CRN 25085-35-2
CMF (C5 H8 O2 . C3 H4 O2)x
CCI PMS

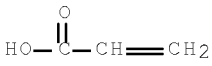
CM 2

CRN 140-88-5
CMF C5 H8 O2



CM 3

CRN 79-10-7
CMF C3 H4 O2



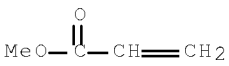
IT 61887-40-9, Methacrylic acid-methyl acrylate copolymer ammonium salt
RL: TEM (Technical or engineered material use); USES (Uses)
(method for producing water-soluble acrylic binder, ceramic slurry composition,
and monolithic ceramic electronic parts)
RN 61887-40-9 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with methyl 2-propenoate, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 26589-39-9
CMF (C4 H6 O2 . C4 H6 O2)x
CCI PMS

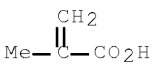
CM 2

CRN 96-33-3
CMF C4 H6 O2



CM 3

CRN 79-41-4
CMF C4 H6 O2



L95 ANSWER 8 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2004:201042 CAPLUS Full-text
DOCUMENT NUMBER: 140:227491
TITLE: Multilayer ceramic capacitors, pastes for their external electrodes, manufacture thereof, and organic binders therefor
INVENTOR(S): Miyazaki, Makoto; Hamanaka, Kenichi
PATENT ASSIGNEE(S): Murata Mfg. Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004079480	A	20040311	JP 2002-242045	20020822 <--
JP 4096661	B2	20080604		
PRIORITY APPLN. INFO.:			JP 2002-242045	20020822 <--

AB Alkylene glycol alkyl ester (meth)acrylates 1-40, alkyl (meth)acrylates 40-99, and comonomers 0-20% are polymerized in organic solvents to give polymers of Mn 10,000-500,000, whereto elec. conductive powders (e.g., base metals) are added and dispersed to afford the title pastes. The pastes show minimized carbon residues and high viscosity and form thick electrode layers without stringiness phenomena.

IC ICM H01B001-22
ICS H01B013-00; H01G004-12
CC 76-10 (Electric Phenomena)
Section cross-reference(s): 57
IT Ceramic capacitors
(multilayer; sagging-resistant conductive pastes showing less carbon residue and forming thick capacitor electrodes)
IT Binders
Capacitor electrodes
Electrically conductive pastes
(sagging-resistant conductive pastes showing less carbon residue and forming thick capacitor electrodes)
IT 666722-41-4P, Ethyl methacrylate-methoxytriethylene glycol methacrylate copolymer 666722-42-5P 666722-43-6P, Ethyl methacrylate-2-ethylhexyl methacrylate-triethylene glycol monomethyl ether methacrylate copolymer 666722-44-7P, Ethyl methacrylate-triethylene glycol monomethyl ether methacrylate-methyl acrylate-methyl methacrylate copolymer 666722-45-8P, Ethyl methacrylate-methoxyoctaethylene glycol methacrylate-methyl acrylate-methyl methacrylate copolymer 666722-47-0P 666722-48-1P, Acrylic acid-ethyl methacrylate-triethylene glycol monomethyl ether methacrylate-methyl acrylate-methyl methacrylate copolymer 666722-49-2P, Ethyl methacrylate-methacrylic acid-triethylene glycol monomethyl ether methacrylate-methyl acrylate-methyl methacrylate copolymer 666722-50-5P, Ethyl methacrylate-triethylene glycol monomethyl ether methacrylate-methyl acrylate-methyl methacrylate-styrene copolymer 666722-51-6P, Isobutyl methacrylate-triethylene glycol monomethyl ether methacrylate copolymer
RL: DEV (Device component use); IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(binders; sagging-resistant conductive pastes showing less carbon residue and forming thick capacitor electrodes)
IT 666722-48-1P, Acrylic acid-ethyl methacrylate-triethylene glycol

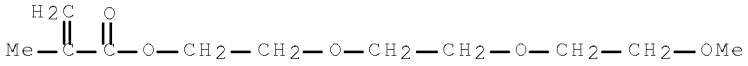
monomethyl ether methacrylate-methyl acrylate-methyl methacrylate copolymer 666722-49-2P, Ethyl methacrylate-methacrylic acid-triethylene glycol monomethyl ether methacrylate-methyl acrylate-methyl methacrylate copolymer
RL: DEV (Device component use); IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(binders; sagging-resistant conductive pastes showing less carbon residue and forming thick capacitor electrodes)

RN 666722-48-1 CAPLUS

CN 2-Propenoic acid, 2-methyl-, ethyl ester, polymer with 2-[2-(2-methoxyethoxy)ethoxy]ethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, methyl 2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

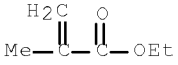
CM 1

CRN 24493-59-2
CMF C11 H20 O5



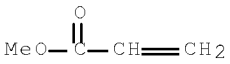
CM 2

CRN 97-63-2
CMF C6 H10 O2



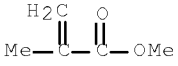
CM 3

CRN 96-33-3
CMF C4 H6 O2



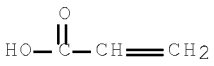
CM 4

CRN 80-62-6
CMF C5 H8 O2



CM 5

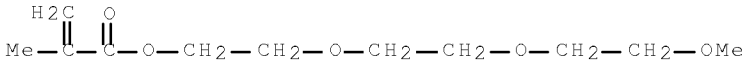
CRN 79-10-7
CMF C3 H4 O2



RN 666722-49-2 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with ethyl 2-methyl-2-propenoate, 2-[2-(2-methoxyethoxy)ethoxy]ethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and methyl 2-propenoate (9CI) (CA INDEX NAME)

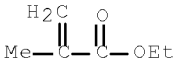
CM 1

CRN 24493-59-2
CMF C11 H20 O5



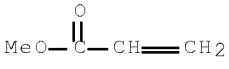
CM 2

CRN 97-63-2
CMF C6 H10 O2



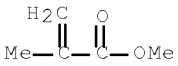
CM 3

CRN 96-33-3
CMF C4 H6 O2



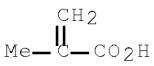
CM 4

CRN 80-62-6
CMF C5 H8 O2



CM 5

CRN 79-41-4
CMF C4 H6 O2



L95 ANSWER 9 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2004:100619 CAPLUS Full-text
DOCUMENT NUMBER: 140:131173
TITLE: Electrolyte compositions for batteries and capacitors
INVENTOR(S): Nakamura, Michiei; Yoshikawa, Sachio; Takizawa, Minoru; Fujita, Toshiyasu; Doi, Seiji; Kihara, Nobuhiro
PATENT ASSIGNEE(S): Dainichiseika Color & Chemicals Mfg. Co., Ltd., Japan
SOURCE: U.S. Pat. Appl. Publ., 18 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20040023121	A1	20040205	US 2003-624671	20030723 <--
TW 283085	B	20070621	TW 2003-92119927	20030722 <--
JP 2004162019	A	20040610	JP 2003-200256	20030723 <--
JP 4164005	B2	20081008		
EP 1403948	A2	20040331	EP 2003-16544	20030724 <--
EP 1403948	A3	20090401		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
KR 2004011381	A	20040205	KR 2003-52242	20030729 <--
CN 1490355	A	20040421	CN 2003-158868	20030730 <--
CN 100540605	C	20090916		
JP 2008288210	A	20081127	JP 2008-149107	20080606 <--
US 20100036060	A1	20100211	US 2009-578634	20091014 <--

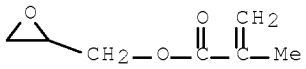
PRIORITY APPLN. INFO.:
JP 2002-221903 A 20020730 <--
JP 2003-200256 A3 20030723 <--
US 2003-624671 B3 20030723 <--

AB Ion-conducting (co)polymer media and ion-conducting oligomer media close in ion conductivity to organic-solvent-based electrolytes can be produced easily and safely on industrial scale. These ion-conducting (co)polymer media use (co)polymers containing at least one cyclocarbonato group, and these ion-conducting oligomer media employ oligomers containing at least two cyclocarbonato groups.
IC ICM H01M010-40

ICS H01G009-025
INCL 429317000; 252062200; 429307000; 361525000; 525410000
CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
Section cross-reference(s): 37, 38, 76
IT Capacitors
(double layer; electrolyte compns. for batteries and capacitors)
IT 56-81-5DP, 1,2,3-Propanetriol, glycidyl derivs., polymers, reaction products with carbon dioxide 77-99-6DP, glycidyl derivs., polymers, reaction products with carbon dioxide 115-77-5DP, glycidyl derivs., polymers, reaction products with carbon dioxide 25067-05-4DP, reaction products with carbon dioxide 28472-86-8DP, reaction products with carbon dioxide 29734-45-0DP, reaction products with carbon dioxide 38811-11-9DP, reaction products with carbon dioxide 54847-49-3DP, reaction products with carbon dioxide 58782-18-6DP, reaction products with carbon dioxide 64614-28-4DP, reaction products with carbon dioxide 75503-85-4DP, reaction products with carbon dioxide 149797-02-4DP, reaction products with carbon dioxide
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(electrolyte cpmpns. for batteries and capacitors)
IT 29734-45-0DP, reaction products with carbon dioxide 75503-85-4DP, reaction products with carbon dioxide
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(electrolyte cpmpns. for batteries and capacitors)
RN 29734-45-0 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-oxiranylmethyl ester, polymer with 2-ethylhexyl 2-propenoate (CA INDEX NAME)

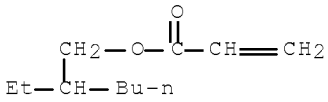
CM 1

CRN 106-91-2
CMF C7 H10 O3



CM 2

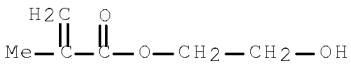
CRN 103-11-7
CMF C11 H20 O2



RN 75503-85-4 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with butyl 2-propenoate and 2-oxiranylmethyl 2-methyl-2-propenoate (CA INDEX NAME)

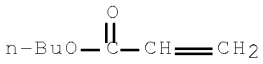
CM 1

CRN 868-77-9
CMF C6 H10 O3



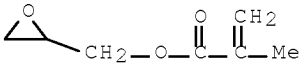
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

CRN 106-91-2
CMF C7 H10 O3



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L95 ANSWER 10 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2003:988520 CAPLUS Full-text
DOCUMENT NUMBER: 140:28391
TITLE: Polymer nanoparticle-based binder compositions for ink-jet inks
INVENTOR(S): Fu, Zhenwen; Graziano, Louis Christopher; Lein, George Max; Hallden-Abberton, Michael Paul; Lundquist, Eric Gustave; Devonport, Wayne
PATENT ASSIGNEE(S): Rohm and Haas Company, USA
SOURCE: Eur. Pat. Appl., 15 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 16
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1371697	A2	20031217	EP 2003-253676	20030611 <--

EP 1371697 A3 20040102
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
US 20030232916 A1 20031218 US 2003-461948 20030613 <--
US 20040063809 A1 20040401 US 2003-462110 20030613 <--
CN 1487042 A 20040407 CN 2003-154511 20030613 <--
CN 1283739 C 20061108
BR 2003002071 A 20040817 BR 2003-2071 20030613 <--
JP 2004250659 A 20040909 JP 2003-168704 20030613 <--
TW 242034 B 20051021 TW 2003-92116145 20030613 <--
JP 2007224318 A 20070906 JP 2007-155690 20070612 <--
PRIORITY APPLN. INFO.: US 2002-389043P P 20020614 <--
US 2002-414599P P 20020930 <--
US 2002-414597P P 20020930 <--
US 2002-414600P P 20020930 <--
JP 2003-168790 A3 20030613 <--

AB A binder composition comprises polymeric nanoparticles (PNPs) having a mean diameter from 1 to 50 nm, the PNPs comprising as polymerized units 1-20% (based on dry polymer weight) of a curable composition unreactive at ambient conditions but capable of being initiated thermally, chemical or photochem. The binder is used in ink-jet ink compns. to improve durability of inks printed on paper, plastics, leather and textiles. Thus, Bu acrylate (169), Me methacrylate (169), trimethylolpropane triacrylate (45), methacrylic acid (23), and itaconic acid (45 g) were polymerized and neutralized with ammonium hydroxide to give a copolymer nanoparticle dispersion useful as a binder for ink-jet inks.

IC ICM C09D011-00
ICS C08J003-07; C08F002-06; C08J003-26
CC 37-6 (Plastics Manufacture and Processing)
Section cross-reference(s): 40, 42

IT Polyurethanes, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(acrylates, crosslinking agents; preparation of polymer nanoparticle binders for ink-jet inks)

IT Amines, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(alkoxylated, tertiary, crosslinking agents; preparation of polymer nanoparticle binders for ink-jet inks)

IT Polyoxyalkylenes, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(amino-terminated, crosslinking agents; preparation of polymer nanoparticle binders for ink-jet inks)

IT Binders
Coloring materials
Crosslinking
Crosslinking agents
Nanoparticles
Pigments, nonbiological
(preparation of polymer nanoparticle binders for ink-jet inks)

IT 56-81-5, Glycerol, reactions 919-30-2, 3-Triethoxysilylpropylamine 13822-56-5, 3-Trimethoxysilylpropylamine 64852-22-8, Jeffamine T 3000 133687-20-4, Ucarlink XL 20 178153-95-2, CN 981 200139-08-8, Desmodur XP 7063 212626-19-2, Epocros K 2020E 304466-12-4, Ethox SAM 50
RL: RCT (Reactant); RACT (Reactant or reagent)
(crosslinking agent; preparation of polymer nanoparticle binders for ink-jet inks)

IT 75-13-8D, Isocyanic acid, esters, polymers 30969-75-6D, Oxazoline, polymers
RL: RCT (Reactant); RACT (Reactant or reagent)
(crosslinking agents; preparation of polymer nanoparticle binders

for ink-jet inks)

IT 136844-56-9P, Butyl acrylate-methacrylic acid-methyl methacrylate-trimethylolpropane triacrylate copolymer
633357-53-6P 633357-55-8P 633357-57-0P
633357-59-2P 633357-61-6P 633357-63-8P
633357-65-0P 633357-67-2P 633357-69-4P
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation of polymer nanoparticle binders for ink-jet inks)

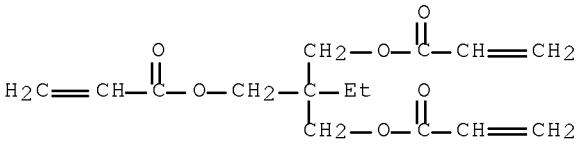
IT 136844-56-9P, Butyl acrylate-methacrylic acid-methyl methacrylate-trimethylolpropane triacrylate copolymer
633357-53-6P 633357-55-8P 633357-57-0P
633357-59-2P 633357-61-6P 633357-63-8P
633357-65-0P 633357-67-2P 633357-69-4P
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation of polymer nanoparticle binders for ink-jet inks)

RN 136844-56-9 CAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, 1,1'-[2-ethyl-2-[[(1-oxo-2-propen-1-yl)oxy]methyl]-1,3-propanediyl] di-2-propenoate and methyl 2-methyl-2-propenoate (CA INDEX NAME)

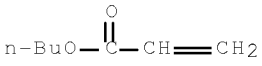
CM 1

CRN 15625-89-5
CMF C15 H20 O6



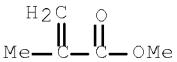
CM 2

CRN 141-32-2
CMF C7 H12 O2



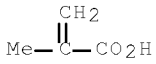
CM 3

CRN 80-62-6
CMF C5 H8 O2



CM 4

CRN 79-41-4
CMF C4 H6 O2



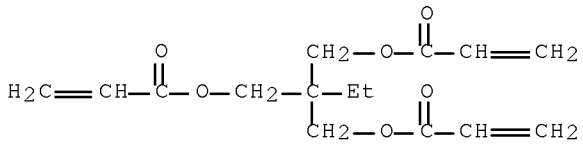
RN 633357-53-6 CAPLUS
CN Butanedioic acid, methylene-, polymer with butyl 2-propenoate, 2-ethyl-2-[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate, methyl 2-methyl-2-propenoate and 2-methyl-2-propenoic acid, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 633357-52-5
CMF (C15 H20 O6 . C7 H12 O2 . C5 H8 O2 . C5 H6 O4 . C4 H6 O2)x
CCI PMS

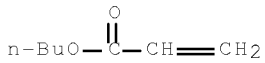
CM 2

CRN 15625-89-5
CMF C15 H20 O6



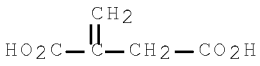
CM 3

CRN 141-32-2
CMF C7 H12 O2



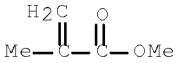
CM 4

CRN 97-65-4
CMF C5 H6 O4



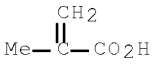
CM 5

CRN 80-62-6
CMF C5 H8 O2



CM 6

CRN 79-41-4
CMF C4 H6 O2



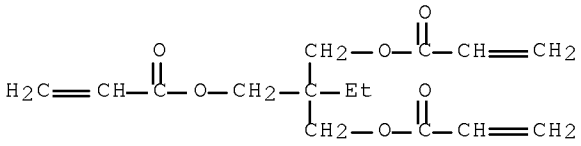
RN 633357-55-8 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, 2-ethyl-2-[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate, N-(hydroxymethyl)-2-propenamide and methyl 2-methyl-2-propenoate, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 633357-54-7
CMF (C15 H20 O6 . C7 H12 O2 . C5 H8 O2 . C4 H7 N O2 . C4 H6 O2)x
CCI PMS

CM 2

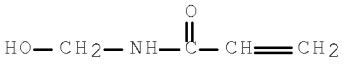
CRN 15625-89-5
CMF C15 H20 O6



CM 3

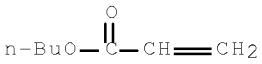
CRN 924-42-5

CMF C4 H7 N O2



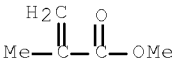
CM 4

CRN 141-32-2
CMF C7 H12 O2



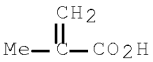
CM 5

CRN 80-62-6
CMF C5 H8 O2



CM 6

CRN 79-41-4
CMF C4 H6 O2



RN 633357-57-0 CAPLUS
CN Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with butyl 2-propenoate, 2-ethyl-2-[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate, methyl 2-methyl-2-propenoate and 2-methyl-2-propenoic acid, ammonium salt (9CI) (CA INDEX NAME)

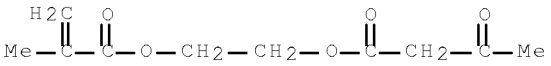
CM 1

CRN 633357-56-9
CMF (C15 H20 O6 . C10 H14 O5 . C7 H12 O2 . C5 H8 O2 . C4 H6 O2)x
CCI PMS

CM 2

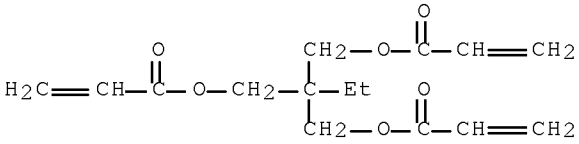
CRN 21282-97-3

CMF C10 H14 O5



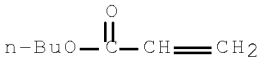
CM 3

CRN 15625-89-5
CMF C15 H20 O6



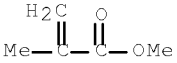
CM 4

CRN 141-32-2
CMF C7 H12 O2



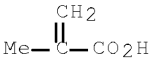
CM 5

CRN 80-62-6
CMF C5 H8 O2



CM 6

CRN 79-41-4
CMF C4 H6 O2



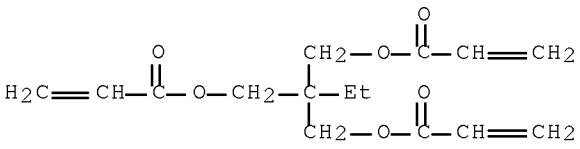
RN 633357-59-2 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, 2-ethyl-2-[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate, methyl 2-methyl-2-propenoate and oxiranylmethyl 2-methyl-2-propenoate, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 633357-58-1
CMF (C15 H20 O6 . C7 H12 O2 . C7 H10 O3 . C5 H8 O2 . C4 H6 O2)x
CCI PMS

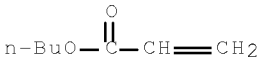
CM 2

CRN 15625-89-5
CMF C15 H20 O6



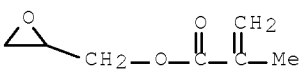
CM 3

CRN 141-32-2
CMF C7 H12 O2



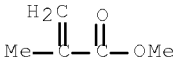
CM 4

CRN 106-91-2
CMF C7 H10 O3



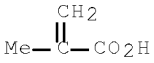
CM 5

CRN 80-62-6
CMF C5 H8 O2



CM 6

CRN 79-41-4
CMF C4 H6 O2



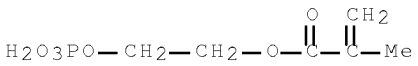
RN 633357-61-6 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, 2-ethyl-2-[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate, methyl 2-methyl-2-propenoate and 2-(phosphonooxy)ethyl 2-methyl-2-propenoate, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 633357-60-5
CMF (C15 H20 O6 . C7 H12 O2 . C6 H11 O6 P . C5 H8 O2 . C4 H6 O2)x
CCI PMS

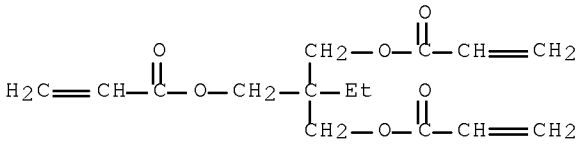
CM 2

CRN 24599-21-1
CMF C6 H11 O6 P



CM 3

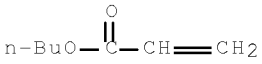
CRN 15625-89-5
CMF C15 H20 O6



CM 4

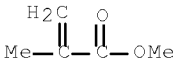
CRN 141-32-2

CMF C7 H12 O2



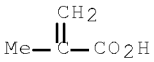
CM 5

CRN 80-62-6
CMF C5 H8 O2



CM 6

CRN 79-41-4
CMF C4 H6 O2



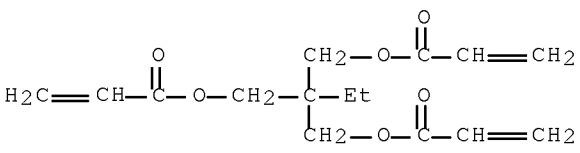
RN 633357-63-8 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, 2-ethyl-2-[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate, methyl 2-methyl-2-propenoate and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 633357-62-7
CMF (C15 H20 O6 . C10 H20 O5 Si . C7 H12 O2 . C5 H8 O2 . C4 H6 O2)x
CCI PMS

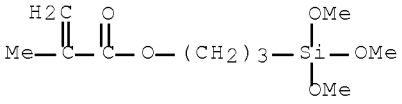
CM 2

CRN 15625-89-5
CMF C15 H20 O6



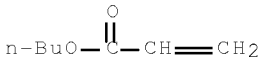
CM 3

CRN 2530-85-0
CMF C10 H20 O5 Si



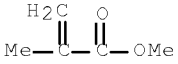
CM 4

CRN 141-32-2
CMF C7 H12 O2



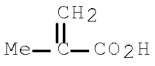
CM 5

CRN 80-62-6
CMF C5 H8 O2



CM 6

CRN 79-41-4
CMF C4 H6 O2



RN 633357-65-0 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, 2-ethyl-2-[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate, 2-[[3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-5(or 6)-yl]oxy]ethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate, ammonium salt (9CI) (CA INDEX NAME)

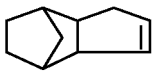
CM 1

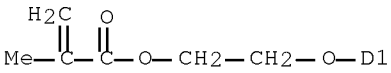
CRN 633357-64-9

CMF (C16 H22 O3 . C15 H20 O6 . C7 H12 O2 . C5 H8 O2 . C4 H6 O2)x
CCI PMS

CM 2

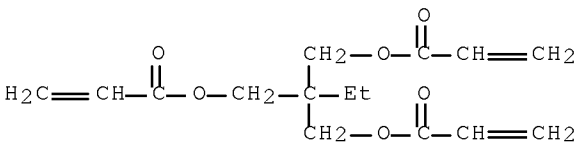
CRN 68169-03-9
CMF C16 H22 O3
CCI IDS





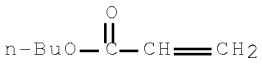
CM 3

CRN 15625-89-5
CMF C15 H20 O6



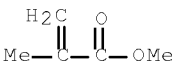
CM 4

CRN 141-32-2
CMF C7 H12 O2



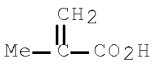
CM 5

CRN 80-62-6
CMF C5 H8 O2



CM 6

CRN 79-41-4
CMF C4 H6 O2



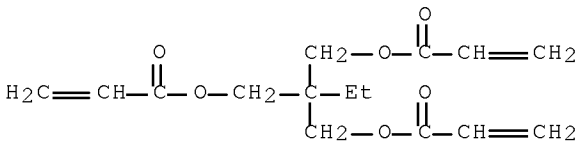
RN 633357-67-2 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, 2-(dimethylamino)ethyl 2-methyl-2-propenoate, 2-ethyl-2-[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate and methyl 2-methyl-2-propenoate, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 633357-66-1
CMF (C15 H20 O6 . C8 H15 N O2 . C7 H12 O2 . C5 H8 O2 . C4 H6 O2)x
CCI PMS

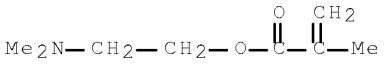
CM 2

CRN 15625-89-5
CMF C15 H20 O6



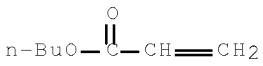
CM 3

CRN 2867-47-2
CMF C8 H15 N O2



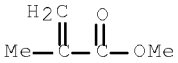
CM 4

CRN 141-32-2
CMF C7 H12 O2



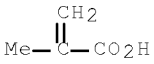
CM 5

CRN 80-62-6
CMF C5 H8 O2



CM 6

CRN 79-41-4
CMF C4 H6 O2



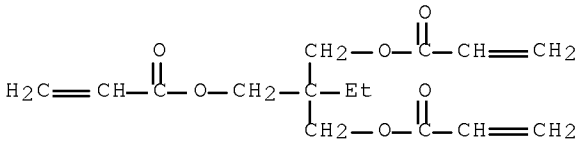
RN 633357-69-4 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, 2-ethyl-2-[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate, 2-furanylmethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 633357-68-3
CMF (C15 H20 O6 . C9 H10 O3 . C7 H12 O2 . C5 H8 O2 . C4 H6 O2)x
CCI PMS

CM 2

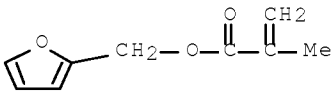
CRN 15625-89-5
CMF C15 H20 O6



CM 3

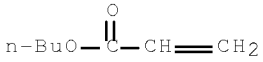
CRN 3454-28-2

CMF C9 H10 O3



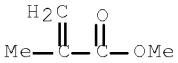
CM 4

CRN 141-32-2
CMF C7 H12 O2



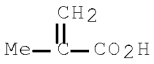
CM 5

CRN 80-62-6
CMF C5 H8 O2



CM 6

CRN 79-41-4
CMF C4 H6 O2



OS.CITING REF COUNT: 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS RECORD (16 CITINGS)
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 11 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2003:730571 CAPLUS Full-text
DOCUMENT NUMBER: 139:253866
TITLE: Electric double-layered capacitor using UV-curing gel type polymer electrolyte
INVENTOR(S): Cho, Byung-Won; Rhee, Hee-Woo; Cho, Won-Il; Kim, Hyun-Joong; Yang, Chun-Mo; Kim, Yong-Tae
PATENT ASSIGNEE(S): Korea Institute of Science and Technology, S. Korea
SOURCE: U.S., 10 pp.

CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6621685	B1	20030916	US 2003-339398	20030110 <--
KR 2003079325	A	20031010	KR 2002-18286	20020403 <--
JP 2003303739	A	20031024	JP 2003-34697	20030213 <--
PRIORITY APPLN. INFO.:			KR 2002-18286 A	20020403 <--

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB The present invention relates to an elec. double-layered capacitor using an UV-curing gel type polymer electrolyte. Disclosed is an elec. double-layered capacitor fabricated by inserting a UV-curing gel type polymer electrolyte having excellent characteristics of ion conductivity, adhesion to electrode, compatibility with an organic solvent electrolyte, mech. stability, permeability, and applicability to process, between electrodes. Accordingly, the present invention increases its storage capacitance, reduces self-discharge of electricity, and decreases inner cell resistance.

IC ICM H01G009-00
INCL 361503000; 361508000; 361512000; 361523000; 361528000; 252062200; 429309000; 429326000
CC 76-10 (Electric Phenomena)
Section cross-reference(s): 38, 72
ST electronic device fabrication double layer capacitor gel polymer electrolyte
IT Fluoropolymers, uses
RL: NUU (Other use, unclassified); USES (Uses)
(UV curing agent; elec. double-layered capacitor using UV-curing gel type polymer electrolyte)
IT Capacitor electrodes
Capacitors
(double layer; elec. double-layered capacitor using UV-curing gel type polymer electrolyte)
IT Electronic device fabrication
Fillers
Polymer electrolytes
(elec. double-layered capacitor using UV-curing gel type polymer electrolyte)
IT Zeolites (synthetic), uses
RL: NUU (Other use, unclassified); USES (Uses)
(filler; elec. double-layered capacitor using UV-curing gel type polymer electrolyte)
IT Membranes, nonbiological
Textiles
(polymer electrolyte support; elec. double-layered capacitor using UV-curing gel type polymer electrolyte)
IT Polyesters, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(polymer electrolyte support; elec. double-layered capacitor using UV-curing gel type polymer electrolyte)
IT 9002-86-2, Polyvinyl chloride 9010-76-8, Acrylonitrile vinylidenechloride copolymer 9011-14-7, Polymethylmethacrylate 9011-17-0, Hexafluoropropylene vinylidene fluoride copolymer 24937-79-9, Kynar 761 24968-79-4, Acrylonitrile methyl acrylate copolymer 25014-41-9, Polyacrylonitrile 25086-15-1, Methylmethacrylate methacrylic acid copolymer 25721-76-0, Polyethyleneglycoldimethacrylate 26570-48-9, Polyethyleneglycoldiacrylate

RL: NUU (Other use, unclassified); USES (Uses)
(UV curing agent; elec. double-layered capacitor
using UV-curing gel type polymer electrolyte)

IT 7440-44-0, Carbon, uses
RL: DEV (Device component use); USES (Uses)
(capacitor electrode; elec. double-layered
capacitor using UV-curing gel type polymer electrolyte)

IT 102-71-6, Triethanol amine, uses 102-82-9, Tributylamine 103-83-3, N-Benzyldimethylamine
RL: CAT (Catalyst use); USES (Uses)
(curing accelerator; elec. double-layered capacitor
using UV-curing gel type polymer electrolyte)

IT 84-51-5, 2-Ethylanthraquinone 84-65-1, Anthraquinone 93-97-0, Benzoyl benzoate 119-61-9, Benzophenone, uses 120-51-4, Benzyl benzoate 131-09-9, 2-Chloroanthraquinone 574-09-4, Ethyl benzoin ether 947-19-3, 1-Hydroxycyclohexyl phenyl ketone 2648-61-5 3524-62-7, Ethanone, 2-methoxy-1,2-diphenyl- 5162-03-8, 2-Chlorobenzophenone 5211-62-1, 2-Methoxyphenylacetone 5293-97-0, 2,2'-DichloroBenzophenone 6175-45-7, 2,2-Diethoxyacetophenone 6652-28-4, Isopropyl benzoin ether 6652-29-5, Benzoin phenyl ether 7473-98-5, 2-Hydroxy-2-methyl-1-phenylpropane-1-one 7783-20-2, Ammonium sulfate, uses 24650-42-8, 2,2-Dimethoxy-2-phenylacetophenone
RL: NUU (Other use, unclassified); USES (Uses)
(curing initiator; elec. double-layered capacitor
using UV-curing gel type polymer electrolyte)

IT 121-44-8, Triethylamine, uses
RL: MOA (Modifier or additive use); USES (Uses)
(elec. double-layered capacitor using UV-curing gel
type polymer electrolyte)

IT 1344-28-1, Alumina, uses 7631-86-9, Silica, uses 12047-27-7, Barium titanate (BaTiO3), uses 13463-67-7, Titanium dioxide, uses
RL: NUU (Other use, unclassified); USES (Uses)
(filler; elec. double-layered capacitor using
UV-curing gel type polymer electrolyte)

IT 79-20-9, Methyl acetate 96-49-1, Ethylene carbonate 105-37-3, Ethyl propionate 105-58-8, Diethyl carbonate 141-78-6, Ethyl acetate, uses 554-12-1, Methyl propionate 623-53-0, Ethylmethyl carbonate 21324-40-3, Lithium hexafluorophosphate
RL: NUU (Other use, unclassified); USES (Uses)
(liquid electrolyte containing; elec. double-layered
capacitor using UV-curing gel type polymer electrolyte)

IT 25038-59-9, Mylar, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(polymer electrolyte support; elec. double-layered
capacitor using UV-curing gel type polymer electrolyte)

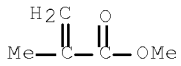
IT 67-64-1, Acetone, miscellaneous 67-68-5, Dimethyl sulfoxide, miscellaneous 68-12-2, Dimethylformamide, miscellaneous 109-99-9, Tetrahydrofuran, miscellaneous 127-19-5, Dimethylacetamide 872-50-4, N-Methyl-2-pyrrolidone, miscellaneous
RL: MSC (Miscellaneous)
(solvent; elec. double-layered capacitor using
UV-curing gel type polymer electrolyte)

IT 25086-15-1, Methylmethacrylate methacrylic acid copolymer
RL: NUU (Other use, unclassified); USES (Uses)
(UV curing agent; elec. double-layered capacitor
using UV-curing gel type polymer electrolyte)

RN 25086-15-1 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with methyl 2-methyl-2-propenoate (CA INDEX NAME)

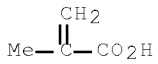
CM 1

CRN 80-62-6
CMF C5 H8 O2



CM 2

CRN 79-41-4
CMF C4 H6 O2



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 12 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2003:675815 CAPLUS Full-text
DOCUMENT NUMBER: 139:189545
TITLE: Anode components in solid capacitors, manufacturing anode components, and solid electrolyte capacitors using anode components thereof
INVENTOR(S): Ito, Masamitsu; Suenaga, Wataru; Moriyama, Minoru; Miyamoto, Akiko
PATENT ASSIGNEE(S): Toei Kasei Co., Ltd., Japan; Dainippon Ink and Chemicals, Inc.; Kojundo Chemicals Laboratory Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003243261	A	20030829	JP 2002-20506	20020129 <--
PRIORITY APPLN. INFO.:			JP 2001-382316 A	20011214 <--

AB The title manufacturing of anode components involves (1) coating on a substrate with a powdered valve metal dispersion containing a polymer binder in a solvent and (2) sintering the coated material. The binder is (meth)acrylate-hydroxyl (meth)acrylate copolymer. The use of the copolymer binder gives the anode components flexibility in avoiding crack formation during connection of a lead wire.
IC ICM H01G009-052
ICS H01G009-00
CC 76-10 (Electric Phenomena)
Section cross-reference(s): 38
IT Binders
(acrylic polymers; anode components in solid capacitors and manufacturing

anode components and solid electrolyte capacitors using anode components thereof)

IT Capacitors
(solid electrolyte; anode components in solid capacitors and manufacturing anode components and solid electrolyte capacitors using anode components thereof)

IT 25719-51-1, Poly-2-ethylhexyl methacrylate 38702-23-7, Butyl methacrylate-2-hydroxyethyl acrylate copolymer 579523-82-3, Butyl methacrylate-2-ethylhexyl methacrylate-Placcel FM 2D copolymer
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)
(binder; anode components in solid capacitors and manufacturing anode components and solid electrolyte capacitors using anode components thereof)

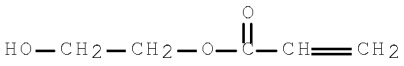
IT 38702-23-7, Butyl methacrylate-2-hydroxyethyl acrylate copolymer
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)
(binder; anode components in solid capacitors and manufacturing anode components and solid electrolyte capacitors using anode components thereof)

RN 38702-23-7 CAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-hydroxyethyl 2-propenoate (CA INDEX NAME)

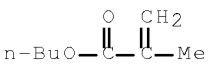
CM 1

CRN 818-61-1
CMF C5 H8 O3



CM 2

CRN 97-88-1
CMF C8 H14 O2



L95 ANSWER 13 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2003:653264 CAPLUS Full-text
DOCUMENT NUMBER: 139:197934
TITLE: Manufacture of powdered binders for fibers
INVENTOR(S): Weiler, Peter; Dietrich, Ulf; Graewe, Rene
PATENT ASSIGNEE(S): Wacker Polymer Systems GmbH & Co. KG, Germany
SOURCE: Eur. Pat. Appl., 14 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

EP 1336623	A2	20030820	EP 2003-2092	20030130 <--
EP 1336623	A3	20031029		
EP 1336623	B1	20040825		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
DE 10206126	A1	20030904	DE 2002-10206126	20020214 <--
US 20030155681	A1	20030821	US 2003-351200	20030123 <--
AT 274528	T	20040915	AT 2003-2092	20030130 <--
ES 2224081	T3	20050301	ES 2003-2092	20030130 <--
PRIORITY APPLN. INFO.:			DE 2002-10206126 A	20020214 <--

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB The title binders, useful for bonding particulate materials and fibers with improved distribution in substrates and adhesion to particles and fibers, contain additives for lowering viscosity of the binder melt. The binder compns. comprise (A) copolymer powders with Tg or melting temperature >30° obtained from (a1) carboxylic acid vinyl esters, (meth)acrylate esters, dienes, olefins, vinyl aromatic monomers, and vinyl halides, and (a2) other monomers, (B) powdered compds. containing ≥2 functional groups reactive with copolymers A, and (C) powdered additives having Tg or melting temperature <150°, selected from polyesters, polyamides, poly(vinyl alc.), fatty alcs., fatty acids and esters, paraffins, etc. For example, adhesion to cotton fibers of a powder comprising acrylamide-Bu acrylate-methacrylic acid-styrene emulsion copolymer binder (preparation given) with 10% triglycidyl isocyanurate crosslinker, 10% poly(vinyl alc.) (hydrolysis degree 64%) and 0.6% Ph3PEtBr was 99%, vs. 75% for a similar binder without poly(vinyl alc.).

IC ICM C08F002-44
ICS C08J003-12; C09D005-03; C08J005-04

CC 35-4 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 40

IT Binders
(manufacture of powdered binders for fibers)

IT 2451-62-9, Triglycidylisocyanurate
RL: TEM (Technical or engineered material use); USES (Uses)
(crosslinker; manufacture of powdered binders for fibers)

IT 38637-59-1P 50658-98-5P 56867-98-2P,
1,4-Cyclohexanedimethanol-Phthalic anhydride copolymer
582217-42-3P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(manufacture of powdered binders for fibers)

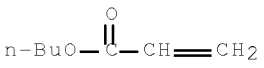
IT 38637-59-1P 50658-98-5P 582217-42-3P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(manufacture of powdered binders for fibers)

RN 38637-59-1 CAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene and 2-oxiranylmethyl 2-methyl-2-propenoate (CA INDEX NAME)

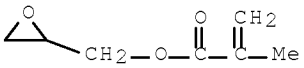
CM 1

CRN 141-32-2
CMF C7 H12 O2



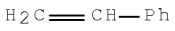
CM 2

CRN 106-91-2
CMF C7 H10 O3



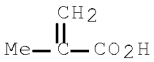
CM 3

CRN 100-42-5
CMF C8 H8



CM 4

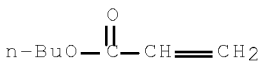
CRN 79-41-4
CMF C4 H6 O2



RN 50658-98-5 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene and 2-propenamide (CA INDEX NAME)

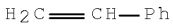
CM 1

CRN 141-32-2
CMF C7 H12 O2



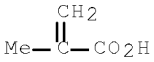
CM 2

CRN 100-42-5
CMF C8 H8



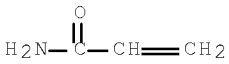
CM 3

CRN 79-41-4
CMF C4 H6 O2



CM 4

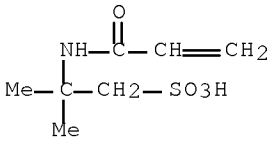
CRN 79-06-1
CMF C3 H5 N O



RN 582217-42-3 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene, 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, 2-propenamide and 2-propenoic acid (9CI) (CA INDEX NAME)

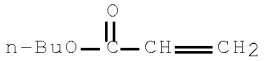
CM 1

CRN 15214-89-8
CMF C7 H13 N O4 S



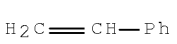
CM 2

CRN 141-32-2
CMF C7 H12 O2



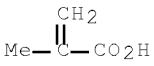
CM 3

CRN 100-42-5
CMF C8 H8



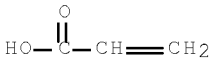
CM 4

CRN 79-41-4
CMF C4 H6 O2



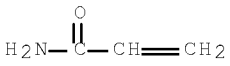
CM 5

CRN 79-10-7
CMF C3 H4 O2



CM 6

CRN 79-06-1
CMF C3 H5 N O



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 14 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2003:317703 CAPLUS Full-text
DOCUMENT NUMBER: 138:324070
TITLE: Electrode binder and electrode for electrochemistry device
INVENTOR(S): Ueno, Yoshiyuki; Murahashi, Tomoyuki; Yamada, Katsunori
PATENT ASSIGNEE(S): Sanyo Chemical Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003123766	A	20030425	JP 2001-321332	20011019 <--
PRIORITY APPLN. INFO.:			JP 2001-321332	20011019 <--

AB The binder is an aqueous dispersion containing a vinyl copolymer, having structure units derived from a F containing monomer, and water dispersible vinyl copolymer. The binder may also contain a water soluble polymer. Electrodes, prepared from electrode material dispersions containing the binder, are used for primary and secondary batteries and double layer capacitors.

IC ICM H01M004-62
ICS C08L057-08; C08L101-14; H01G009-04; H01G009-042; H01G009-058; H01M004-02; H01M004-24; H01M004-58; H01M004-60; H01M006-16; H01M010-40

CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
Section cross-reference(s): 76

ST battery electrode binder vinyl copolymer compn; double layer capacitor electrode binder vinyl copolymer

IT Battery electrodes
(binders containing water dispersible vinyl copolymers and fluoro containing
vinyl copolymers for battery electrodes)

IT Capacitors
(double layer; binders containing water dispersible vinyl copolymers and fluoro containing vinyl copolymers for double layer capacitor electrodes)

IT 7440-44-0, Carbon, uses
RL: DEV (Device component use); USES (Uses)
(activated; binders containing water dispersible vinyl copolymers and fluoro containing vinyl copolymers for double layer capacitor electrodes)

IT 9004-67-5P, Methyl cellulose 421766-50-9P 421766-51-0P 421766-53-2P 512206-56-3P 512206-57-4P
RL: DEV (Device component use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)
(binders containing water dispersible vinyl copolymers and fluoro containing
vinyl copolymers for battery and capacitor electrodes)

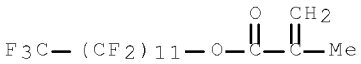
IT 421766-51-0P 421766-53-2P 512206-56-3P 512206-57-4P
RL: DEV (Device component use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)
(binders containing water dispersible vinyl copolymers and fluoro containing
vinyl copolymers for battery and capacitor electrodes)

RN 421766-51-0 CAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1,3-butadiene, ethenylbenzene, methyl 2-methyl-2-propenoate and pentacosafluorododecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

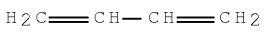
CM 1

CRN 421766-49-6
CMF C16 H5 F25 O2



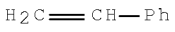
CM 2

CRN 106-99-0
CMF C4 H6



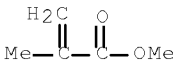
CM 3

CRN 100-42-5
CMF C8 H8



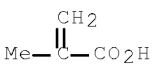
CM 4

CRN 80-62-6
CMF C5 H8 O2



CM 5

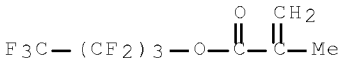
CRN 79-41-4
CMF C4 H6 O2



RN 421766-53-2 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and nonafluorobutyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

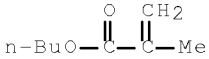
CM 1

CRN 115-23-1
CMF C8 H5 F9 O2



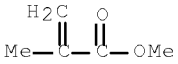
CM 2

CRN 97-88-1
CMF C8 H14 O2



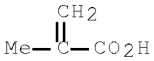
CM 3

CRN 80-62-6
CMF C5 H8 O2



CM 4

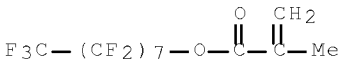
CRN 79-41-4
CMF C4 H6 O2



RN 512206-56-3 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with 1,3-butadiene, ethenylbenzene, heptadecafluorooctyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

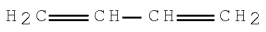
CM 1

CRN 15498-46-1
CMF C12 H5 F17 O2



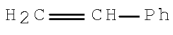
CM 2

CRN 106-99-0
CMF C4 H6



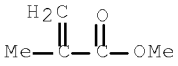
CM 3

CRN 100-42-5
CMF C8 H8



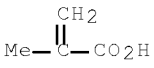
CM 4

CRN 80-62-6
CMF C5 H8 O2



CM 5

CRN 79-41-4
CMF C4 H6 O2

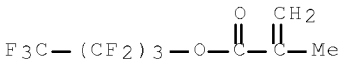


RN 512206-57-4 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with 1,3-butadiene, ethenylbenzene, methyl 2-methyl-2-propenoate and nonafluorobutyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

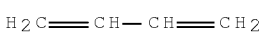
CRN 115-23-1

CMF C8 H5 F9 O2



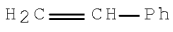
CM 2

CRN 106-99-0
CMF C4 H6



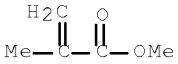
CM 3

CRN 100-42-5
CMF C8 H8



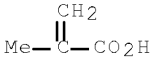
CM 4

CRN 80-62-6
CMF C5 H8 O2



CM 5

CRN 79-41-4
CMF C4 H6 O2



L95 ANSWER 15 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2003:239912 CAPLUS Full-text
DOCUMENT NUMBER: 138:256637
TITLE: Water-thinned paints with good film-forming property

and low tackiness containing core-shell binder emulsions
INVENTOR(S): Amano, Ryotaro
PATENT ASSIGNEE(S): S.K. Kaken Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003089766	A	20030328	JP 2002-188857	20020628 <--
JP 4033723	B2	20080116		

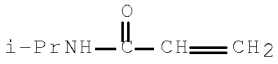
PRIORITY APPLN. INFO.: JP 2001-207288 A 20010709 <--

AB The paints contain binder emulsions prepared by copolymn. of (A) ethylenic unsatd. monomers containing (a1) heat-sensitive monomers in the presence of (B) water-dispersible resin particles containing ethylenic unsatd. monomers at a temperature higher than the lower critical solution temperature (Tc) of A homopolymers. Components A and B may have groups crosslinkable with each other. Thus, N-isopropylacrylamide (homopolymer Tc 32°) and N,N'-methylenebisacrylamide were copolymd. at 70° in the presence of Me methacrylate-2-ethylhexyl acrylate-acrylic acid copolymer emulsion to give a core-shell graft copolymer. A paint from the copolymer showed the lowest film-forming temperature ≤0° and afforded a waterproof tack-free layer.

IC ICM C09D157-00
ICS C08F002-44; C08F291-00; C09D005-02; C09D133-24
CC 42-7 (Coatings, Inks, and Related Products)
IT Binders
(core-shell graft resin emulsions; water-thinned waterproof paints with good film-forming property containing core-shell binder emulsions)
IT 5138-18-1DP, Sulfosuccinic acid, derivs., graft polymer with acrylic monomers 502697-44-1P 502697-45-2P
502697-46-3P 502697-47-4P 502697-48-5P
502697-49-6P 502697-50-9P 502697-52-1P
502697-53-2P 502697-54-3P 502699-00-5P,
Acrylic acid-ethylene oxide-2-ethylhexyl acrylate-N-isopropylacrylamide-methyl methacrylate graft copolymer sulfate ammonium salt
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(core-shell; water-thinned waterproof paints with good film-forming property containing core-shell binder emulsions)
IT 502697-44-1P 502697-45-2P 502697-46-3P
502697-47-4P 502697-48-5P 502697-50-9P
502697-52-1P 502697-53-2P 502697-54-3P
502699-00-5P, Acrylic acid-ethylene oxide-2-ethylhexyl acrylate-N-isopropylacrylamide-methyl methacrylate graft copolymer sulfate ammonium salt
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(core-shell; water-thinned waterproof paints with good film-forming property containing core-shell binder emulsions)
RN 502697-44-1 CAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2-ethylhexyl 2-propenoate, N,N'-methylenebis[2-propenamide], N-(1-methylethyl)-2-propenamide and 2-propenoic acid, graft (9CI) (CA INDEX NAME)

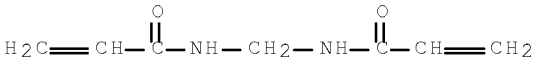
CM 1

CRN 2210-25-5
CMF C6 H11 N O



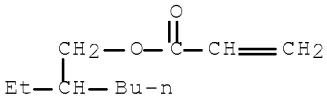
CM 2

CRN 110-26-9
CMF C7 H10 N2 O2



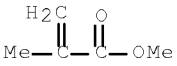
CM 3

CRN 103-11-7
CMF C11 H20 O2



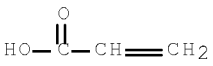
CM 4

CRN 80-62-6
CMF C5 H8 O2



CM 5

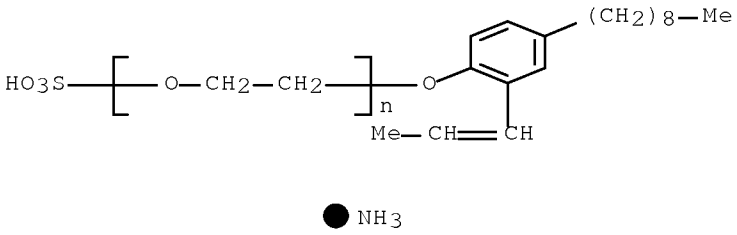
CRN 79-10-7
CMF C3 H4 O2



RN 502697-45-2 CAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2-ethylhexyl 2-propenoate, N-(1-methylethyl)-2-propenamide, 2-propenoic acid and α-sulfo-ω-[4-nonyl-2-(1-propenyl)phenoxy]poly(oxy-1,2-ethanediyl) ammonium salt, graft (9CI) (CA INDEX NAME)

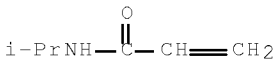
CM 1

CRN 140651-97-4
CMF (C2 H4 O)n C18 H28 O4 S . H3 N
CCI PMS



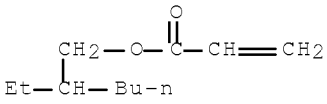
CM 2

CRN 2210-25-5
CMF C6 H11 N O



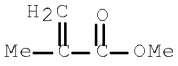
CM 3

CRN 103-11-7
CMF C11 H20 O2



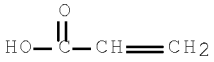
CM 4

CRN 80-62-6
CMF C5 H8 O2



CM 5

CRN 79-10-7
CMF C3 H4 O2



RN 502697-46-3 CAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2-ethylhexyl 2-propenoate, Latemul S 180A, N-(1-methylethyl)-2-propenamide and 2-propenoic acid, graft (9CI) (CA INDEX NAME)

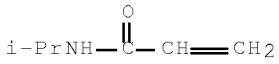
CM 1

CRN 113255-53-1
CMF Unspecified
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

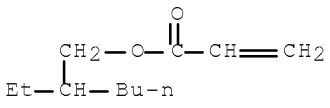
CM 2

CRN 2210-25-5
CMF C6 H11 N O



CM 3

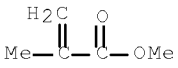
CRN 103-11-7
CMF C11 H20 O2



CM 4

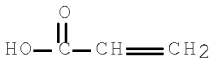
CRN 80-62-6

CMF C5 H8 O2



CM 5

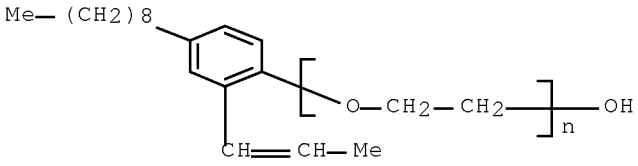
CRN 79-10-7
CMF C3 H4 O2



RN 502697-47-4 CAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, 2-ethylhexyl 2-propenoate, N,N'-methylenebis[2-propenamide], N-(1-methylethyl)-2-propenamide, α-[4-nonyl-2-(1-propenyl)phenyl]-ω-hydroxypoly(oxy-1,2-ethanediyl), 2-propenamide and 2-propenoic acid, graft (9CI) (CA INDEX NAME)

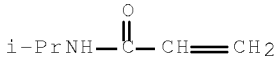
CM 1

CRN 146847-27-0
CMF (C2 H4 O)n C18 H28 O
CCI PMS



CM 2

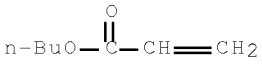
CRN 2210-25-5
CMF C6 H11 N O



CM 3

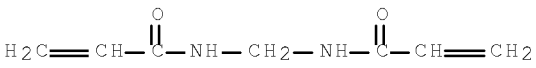
CRN 141-32-2

CMF C7 H12 O2



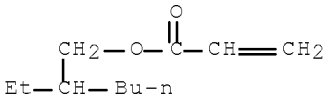
CM 4

CRN 110-26-9
CMF C7 H10 N2 O2



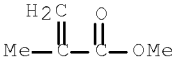
CM 5

CRN 103-11-7
CMF C11 H20 O2



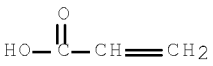
CM 6

CRN 80-62-6
CMF C5 H8 O2



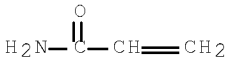
CM 7

CRN 79-10-7
CMF C3 H4 O2



CM 8

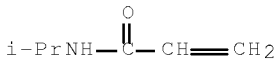
CRN 79-06-1
CMF C3 H5 N O



RN 502697-48-5 CAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, 2-ethylhexyl 2-propenoate, N,N'-methylenebis[2-propenamide], N-(1-methylethyl)-2-propenamide, oxirane, 2-propenamide and 2-propenoic acid, graft (9CI) (CA INDEX NAME)

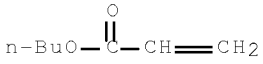
CM 1

CRN 2210-25-5
CMF C6 H11 N O



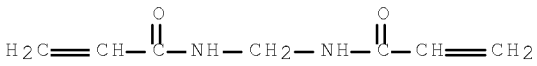
CM 2

CRN 141-32-2
CMF C7 H12 O2



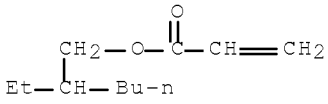
CM 3

CRN 110-26-9
CMF C7 H10 N2 O2



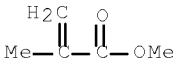
CM 4

CRN 103-11-7
CMF C11 H20 O2



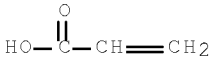
CM 5

CRN 80-62-6
CMF C5 H8 O2



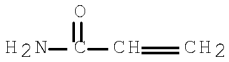
CM 6

CRN 79-10-7
CMF C3 H4 O2



CM 7

CRN 79-06-1
CMF C3 H5 N O



CM 8

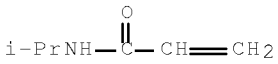
CRN 75-21-8
CMF C2 H4 O

RN 502697-50-9 CAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2-ethylhexyl 2-propenoate, ethyl 2-propenoate, N,N'-methylenebis[2-propenamide], N-(1-methylethyl)-2-propenamide and 2-propenoic acid, graft (9CI) (CA

INDEX NAME)

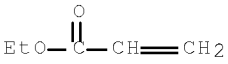
CM 1

CRN 2210-25-5
CMF C6 H11 N O



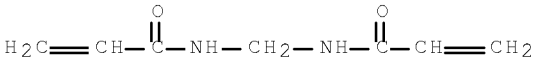
CM 2

CRN 140-88-5
CMF C5 H8 O2



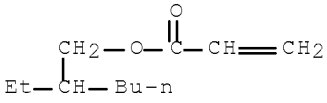
CM 3

CRN 110-26-9
CMF C7 H10 N2 O2



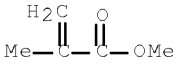
CM 4

CRN 103-11-7
CMF C11 H20 O2



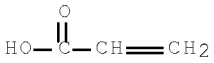
CM 5

CRN 80-62-6
CMF C5 H8 O2



CM 6

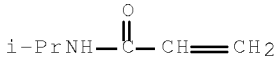
CRN 79-10-7
CMF C3 H4 O2



RN 502697-52-1 CAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2-ethylhexyl 2-propenoate, N-(1-methylethyl)-2-propenamide, oxiranylmethyl 2-methyl-2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

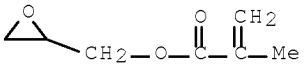
CM 1

CRN 2210-25-5
CMF C6 H11 N O



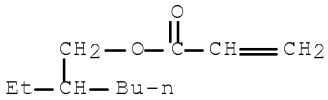
CM 2

CRN 106-91-2
CMF C7 H10 O3



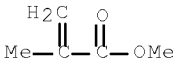
CM 3

CRN 103-11-7
CMF C11 H20 O2



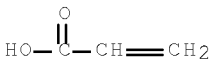
CM 4

CRN 80-62-6
CMF C5 H8 O2



CM 5

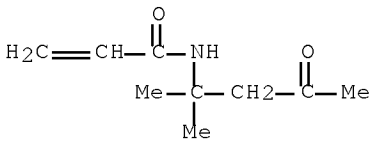
CRN 79-10-7
CMF C3 H4 O2



RN 502697-53-2 CAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with N-(1,1-dimethyl-3-oxobutyl)-2-propenamide, 2-ethylhexyl 2-propenoate, N-(1-methylethyl)-2-propenamide and 2-propenoic acid, graft (9CI) (CA INDEX NAME)

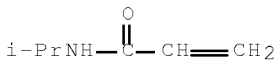
CM 1

CRN 2873-97-4
CMF C9 H15 N O2



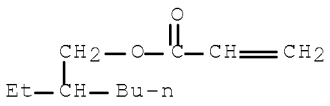
CM 2

CRN 2210-25-5
CMF C6 H11 N O



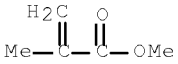
CM 3

CRN 103-11-7
CMF C11 H20 O2



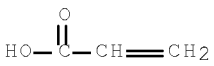
CM 4

CRN 80-62-6
CMF C5 H8 O2



CM 5

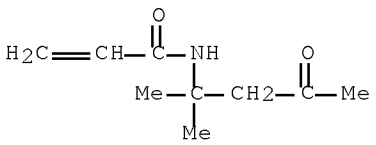
CRN 79-10-7
CMF C3 H4 O2



RN 502697-54-3 CAPLUS
CN Hexanedioic acid, dihydrazide, polymer with N-(1,1-dimethyl-3-oxobutyl)-2-propenamide, 2-ethylhexyl 2-propenoate, N-(1-methylethyl)-2-propenamide, methyl 2-methyl-2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

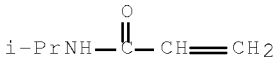
CM 1

CRN 2873-97-4
CMF C9 H15 N O2



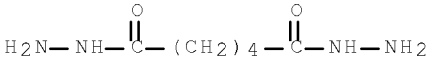
CM 2

CRN 2210-25-5
CMF C6 H11 N O



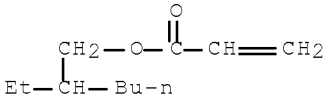
CM 3

CRN 1071-93-8
CMF C6 H14 N4 O2



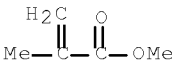
CM 4

CRN 103-11-7
CMF C11 H20 O2



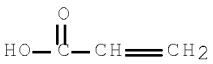
CM 5

CRN 80-62-6
CMF C5 H8 O2



CM 6

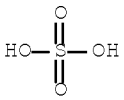
CRN 79-10-7
CMF C3 H4 O2



RN 502699-00-5 CAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2-ethylhexyl 2-propenoate, N-(1-methylethyl)-2-propenamide, oxirane and 2-propenoic acid, hydrogen sulfate (ester), graft, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 7664-93-9
CMF H2 O4 S

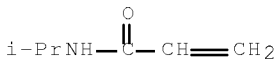


CM 2

CRN 502698-99-9
CMF (C11 H20 O2 . C6 H11 N O . C5 H8 O2 . C3 H4 O2 . C2 H4 O)x
CCI PMS

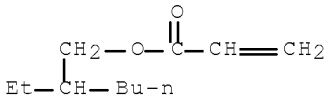
CM 3

CRN 2210-25-5
CMF C6 H11 N O



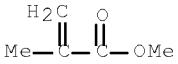
CM 4

CRN 103-11-7
CMF C11 H20 O2



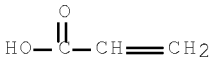
CM 5

CRN 80-62-6
CMF C5 H8 O2



CM 6

CRN 79-10-7
CMF C3 H4 O2



CM 7

CRN 75-21-8
CMF C2 H4 O

L95 ANSWER 16 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2002:736834 CAPLUS Full-text
DOCUMENT NUMBER: 137:256414
TITLE: Sheet to form a protective film for chips and process for producing semiconductor chips
INVENTOR(S): Senoo, Hideo; Sugino, Takashi; Yamazaki, Osamu
PATENT ASSIGNEE(S): Lintec Corporation, Japan
SOURCE: U.S. Pat. Appl. Publ., 17 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20020137309	A1	20020926	US 2002-102583	20020320 <--
US 6919262	B2	20050719		
MX 2002003032	A	20030820	MX 2002-3032	20001211 <--
JP 2002280329	A	20020927	JP 2001-81226	20010321 <--
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CN 1217406	C	20050831		
CN 1684225	A	20051019	CN 2005-10060155	20020321 <--
CN 100370581	C	20080220		
EP 1852906	A2	20071107	EP 2007-16260	20020321 <--
EP 1852906	A3	20090401		

R: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC,

NL, PT, SE, TR

EP 1244143	B1	20080220	EP 2002-252032	20020321	<--
R: DE, FR, GB, IT, NL, PT					
PT 1244143	E	20080311	PT 2002-252032	20020321	<--
JP 2004260190	A	20040916	JP 2004-54354	20040227	<--
JP 4271597	B2	20090603			
US 20050184402	A1	20050825	US 2005-113480	20050425	<--
US 7408259	B2	20080805			
US 20050186762	A1	20050825	US 2005-113481	20050425	<--
US 7235465	B2	20070626			
PH 1200600121	A	20070910	PH 2006-1200600121	20060227	<--
PH 1200600122	A	20070910	PH 2006-1200600122	20060227	<--
JP 2008072108	A	20080327	JP 2007-227579	20070903	
US 20080260982	A1	20081023	US 2008-144702	20080624	<--

PRIORITY APPLN. INFO.:

JP 2001-81226	A	20010321	<--
PH 2002-1200200207	A3	20020320	<--
US 2002-102583	A3	20020320	<--
CN 2002-107957	A3	20020321	<--
EP 2002-252032	A3	20020321	<--
JP 2004-54354	A3	20040227	
US 2005-113480	A3	20050425	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB The present invention provides a sheet to form a protective film for chips, which can be readily formed into a highly uniform protective film on a back surface of chip, and which, even if minute scratches are formed on the back surface of chip as a result of mech. grinding, can eliminate adverse effects resulting from the scratches. The sheet to form a protective film for chips of the present invention comprises a release sheet and a protective film forming layer formed on a detachable surface of the release sheet, wherein said protective film forming layer comprises a thermosetting or energy ray-curable component and a binder polymer component.

IC ICM H01L021-301

INCL 438460000

CC 76-3 (Electric Phenomena)
Section cross-reference(s): 38

IT Binders
Coating materials
Crosslinking agents
Electric circuits
Polymerization
Semiconductor device fabrication
(sheet to form protective film for chips and process for producing semiconductor chips)

IT 39278-79-0, Coronate L
RL: CPS (Chemical process); NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)
(crosslinking agent; sheet to form protective film for chips and process for producing semiconductor chips)

IT 183803-65-8P, Butyl acrylate-methyl methacrylate-methyl acrylate-2-hydroxyethyl acrylate copolymer
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)
(sheet to form protective film for chips and process for producing semiconductor chips)

IT 171874-02-5, Butyl acrylate-methyl methacrylate-glycidyl methacrylate-2-hydroxyethyl acrylate copolymer
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(sheet to form protective film for chips and process for producing semiconductor chips)

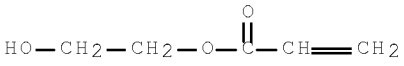
IT 183803-65-8P, Butyl acrylate-methyl methacrylate-methyl acrylate-2-hydroxyethyl acrylate copolymer
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)
(sheet to form protective film for chips and process for producing semiconductor chips)

RN 183803-65-8 CAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, 2-hydroxyethyl 2-propenoate and methyl 2-propenoate (CA INDEX NAME)

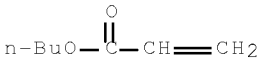
CM 1

CRN 818-61-1
CMF C5 H8 O3



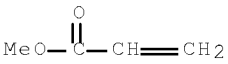
CM 2

CRN 141-32-2
CMF C7 H12 O2



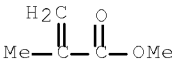
CM 3

CRN 96-33-3
CMF C4 H6 O2



CM 4

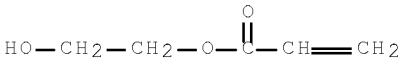
CRN 80-62-6
CMF C5 H8 O2



IT 171874-02-5, Butyl acrylate-methyl methacrylate-glycidyl methacrylate-2-hydroxyethyl acrylate copolymer
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(sheet to form protective film for chips and process for producing semiconductor chips)
RN 171874-02-5 CAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, 2-hydroxyethyl 2-propenoate and 2-oxiranylmethyl 2-methyl-2-propenoate (CA INDEX NAME)

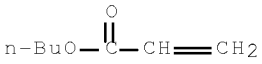
CM 1

CRN 818-61-1
CMF C5 H8 O3



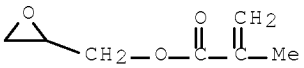
CM 2

CRN 141-32-2
CMF C7 H12 O2



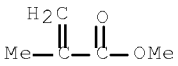
CM 3

CRN 106-91-2
CMF C7 H10 O3



CM 4

CRN 80-62-6
CMF C5 H8 O2



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 17 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2002:368812 CAPLUS Full-text
DOCUMENT NUMBER: 136:357524
TITLE: Binder for electrochemical device electrode and the electrode
INVENTOR(S): Ueno, Yoshiyuki; Murahashi, Satoshi; Yamada, Katsufumi
PATENT ASSIGNEE(S): Sanyo Chemical Industries Ltd., Japan
SOURCE: PCT Int. Appl., 59 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

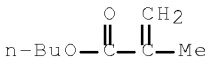
PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 2002039524	A1	20020516	WO 2001-JP9863		20011112 <--
W: CN, IN, KR, US					
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR					
JP 2002256129	A	20020911	JP 2001-324628		20011023 <--
JP 3911145	B2	20070509			
US 20040062989	A1	20040401	US 2003-415890		20030911 <--
PRIORITY APPLN. INFO.:			JP 2000-343133	A	20001110 <--
			JP 2000-394467	A	20001226 <--
			WO 2001-JP9863	W	20011112 <--

AB The binder is an aqueous dispersion containing a F containing water dispersible polymer and/or a vinyl polymer thickener, which can reversibly change between hydrophilic and hydrophobic at a transition temperature The binder may also contain other water dispersible polymer. The dispersion is preferably prepared by using a polymerizable emulsifier CH2:CR1COO(AO)pAr(R2)mXAr(R3)nO(AO)qSO3M, where Ar = aromatic group, R1 = H or Me, R2 and R3 = monovalent hydrocarbon groups with >1 R2 and >1 R3 being an aromatic ring containing hydrocarbon groups, m and n = 0 or 1-5 with an average (m+n) = 1-8, X = alkylene, cycloalkylidene, aryalkylidene, O, S, sulfonyl, bistrifluoromethyl methylene, or carbonyl group, M = cation, A = C2-4 alkylene group, p, and q = 1-40 with average (p+q) = 2-80. The electrode is useful for primary and secondary batteries as well as for double layer capacitors.
IC ICM H01M004-62
ICS H01M004-02; H01M004-04; H01G009-058
CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
Section cross-reference(s): 76
ST battery electrode binder water dispersing polymer thickener; double layer capacitor electrode water dispersing binder
IT Battery electrodes
(compns. of aqueous dispersions of electrode binders for secondary lithium batteries)
IT Capacitors
(double layer; compns. of aqueous dispersions of

electrode binders for double layer capacitors)
IT 7440-44-0D, Carbon, activated
RL: DEV (Device component use); USES (Uses)
(compns. of aqueous dispersions of electrode binders for double layer capacitors)
IT 9003-39-8 9004-67-5, Methyl cellulose 28262-63-7
28572-98-7 29186-31-0 56793-67-0
421766-50-9 421766-51-0 421766-52-1
421766-53-2 421766-54-3 421766-55-4
RL: DEV (Device component use); USES (Uses)
(compns. of aqueous dispersions of electrode binders for electrochem. devices)
IT 28262-63-7 28572-98-7 29186-31-0
56793-67-0 421766-51-0 421766-52-1
421766-53-2 421766-54-3 421766-55-4
RL: DEV (Device component use); USES (Uses)
(compns. of aqueous dispersions of electrode binders for electrochem. devices)
RN 28262-63-7 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (CA INDEX NAME)

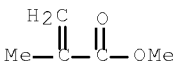
CM 1

CRN 97-88-1
CMF C8 H14 O2



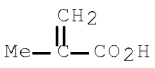
CM 2

CRN 80-62-6
CMF C5 H8 O2



CM 3

CRN 79-41-4
CMF C4 H6 O2

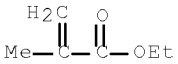


RN 28572-98-7 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with ethyl 2-methyl-2-propenoate (CA

INDEX NAME)

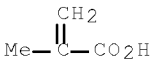
CM 1

CRN 97-63-2
CMF C6 H10 O2



CM 2

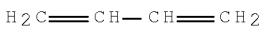
CRN 79-41-4
CMF C4 H6 O2



RN 29186-31-0 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with 1,3-butadiene, ethenylbenzene and methyl 2-methyl-2-propenoate (CA INDEX NAME)

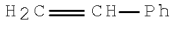
CM 1

CRN 106-99-0
CMF C4 H6



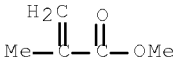
CM 2

CRN 100-42-5
CMF C8 H8



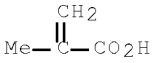
CM 3

CRN 80-62-6
CMF C5 H8 O2



CM 4

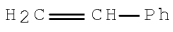
CRN 79-41-4
CMF C4 H6 O2



RN 56793-67-0 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, ethenylbenzene and methyl 2-methyl-2-propenoate (CA INDEX NAME)

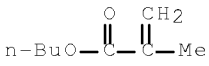
CM 1

CRN 100-42-5
CMF C8 H8



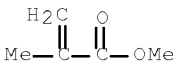
CM 2

CRN 97-88-1
CMF C8 H14 O2



CM 3

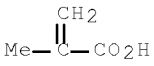
CRN 80-62-6
CMF C5 H8 O2



CM 4

CRN 79-41-4

CMF C4 H6 O2



RN 421766-51-0 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with 1,3-butadiene, ethenylbenzene, methyl 2-methyl-2-propenoate and pentacosafluorododecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 421766-49-6
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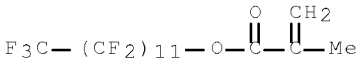
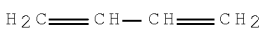


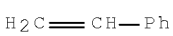
CM 2

CRN 106-99-0
CMF C4 H6



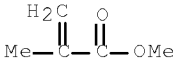
CM 3

CRN 100-42-5
CMF C8 H8



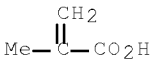
CM 4

CRN 80-62-6
CMF C5 H8 O2



CM 5

CRN 79-41-4
CMF C4 H6 O2



RN 421766-52-1 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, ethenylbenzene, heptadecafluorooctyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 15498-46-1
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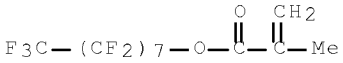
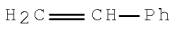


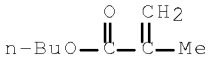
CM 2

CRN 100-42-5
CMF C8 H8



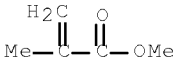
CM 3

CRN 97-88-1
CMF C8 H14 O2



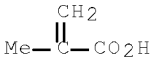
CM 4

CRN 80-62-6
CMF C5 H8 O2



CM 5

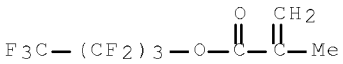
CRN 79-41-4
CMF C4 H6 O2



RN 421766-53-2 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and nonafluorobutyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

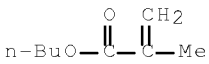
CM 1

CRN 115-23-1
CMF C8 H5 F9 O2



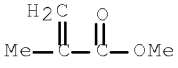
CM 2

CRN 97-88-1
CMF C8 H14 O2



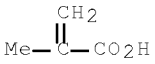
CM 3

CRN 80-62-6
CMF C5 H8 O2



CM 4

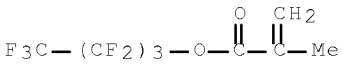
CRN 79-41-4
CMF C4 H6 O2



RN 421766-54-3 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, ethenylbenzene, methyl 2-methyl-2-propenoate and nonafluorobutyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

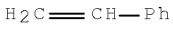
CM 1

CRN 115-23-1
CMF C8 H5 F9 O2



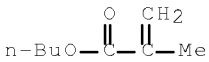
CM 2

CRN 100-42-5
CMF C8 H8



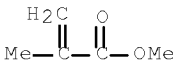
CM 3

CRN 97-88-1
CMF C8 H14 O2



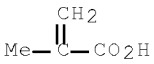
CM 4

CRN 80-62-6
CMF C5 H8 O2



CM 5

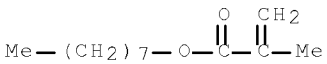
CRN 79-41-4
CMF C4 H6 O2



RN 421766-55-4 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, ethenylbenzene, methyl 2-methyl-2-propenoate and octyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

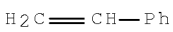
CM 1

CRN 2157-01-9
CMF C12 H22 O2



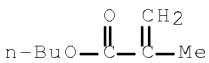
CM 2

CRN 100-42-5
CMF C8 H8



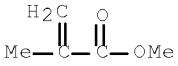
CM 3

CRN 97-88-1
CMF C8 H14 O2



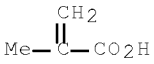
CM 4

CRN 80-62-6
CMF C5 H8 O2



CM 5

CRN 79-41-4
CMF C4 H6 O2



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 18 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2002:292220 CAPLUS Full-text
DOCUMENT NUMBER: 136:318006
TITLE: Methacrylate polymer dielectric thin films, thin film capacitors and preparation method thereof
INVENTOR(S): Sasaki, Yorihiko; Sasaki, Makoto
PATENT ASSIGNEE(S): Alps Electric Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002118030	A	20020419	JP 2000-308372	20001006 <--

PRIORITY APPLN. INFO.: JP 2000-308372 20001006 <--

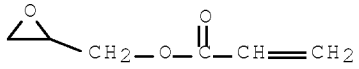
AB Title films mainly comprise crosslinkable polymers obtained from alkyl methacrylates and glycidyl methacrylate. Temperature dependency of the dielec. consts. of the films are controlled by copolymn. ratios of the monomers providing temp-compensated capacitors over a wide range. Thus, a composition containing 20 g crosslinkable 19:1 (mol) Me methacrylate-glycidyl methacrylate copolymer and 2 g naphthoquinonediazido was spin-coated on a lower electrode, irradiated with a UV light using a photomask, developed to give a pattern, cured at 230° for 1 h, and an upper electrode was formed to give a dielec. thin film capacitor with thermal expansion coefficient 2.1 + 10-4/° and temperature dependency of the dielec. constant -1800 ppm/°.

IC ICM H01G004-33
ICS C08F008-12; C08F220-12; C08F220-32; H01G004-18; H01G004-30
CC 76-10 (Electric Phenomena)
Section cross-reference(s): 38
IT Capacitors
(film; preparation of dielec. thin films and thin film capacitors)
IT Capacitor electrodes
Dielectric films
(preparation of dielec. thin films and thin film capacitors)

IT 29931-28-0P, Glycidyl acrylate-methyl methacrylate copolymer
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(crosslinked; preparation of dielec. thin films and thin film capacitors)
IT 29931-28-0P, Glycidyl acrylate-methyl methacrylate copolymer
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(crosslinked; preparation of dielec. thin films and thin film capacitors)
RN 29931-28-0 CAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2-oxiranylmethyl 2-propenoate (CA INDEX NAME)

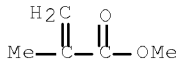
CM 1

CRN 106-90-1
CMF C6 H8 O3



CM 2

CRN 80-62-6
CMF C5 H8 O2



L95 ANSWER 19 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2001:709762 CAPLUS Full-text
DOCUMENT NUMBER: 135:257734
TITLE: Crosslinkable polymer blends
INVENTOR(S): Kohlhammer, Klaus; Hashemzadeh, Abdulmajid
PATENT ASSIGNEE(S): Wacker Polymer Systems G.m.b.H. & Co. K.-G., Germany
SOURCE: Eur. Pat. Appl., 14 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1136516	A1	20010926	EP 2001-103570	20010220 <--
EP 1136516	B1	20050105		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
DE 10014399	A1	20011004	DE 2000-10014399	20000323 <--

AT 286521	T	20050115	AT 2001-103570	20010220 <--
ES 2233506	T3	20050616	ES 2001-103570	20010220 <--
US 20010034399	A1	20011025	US 2001-804495	20010312 <--
US 6884837	B2	20050426		
PL 199857	B1	20081128	PL 2001-346489	20010316 <--
CA 2341002	A1	20010923	CA 2001-2341002	20010319 <--
CA 2341002	C	20100209		
JP 2001261986	A	20010926	JP 2001-81490	20010321 <--
JP 3977602	B2	20070919		
TW 574272	B	20040201	TW 2001-90106816	20010322 <--

PRIORITY APPLN. INFO.: DE 2000-10014399 A 20000323 <--

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB The title compns., useful as binders (e.g., for lamination and bonding of textiles), are aqueous dispersions or powders of polymers (glass temperature or m.p. ≥30°) from vinyl esters, (meth)acrylate esters, (di)olefins, vinyl aromatic compds., and/or vinyl halides and 0.1-50% unsatd. carboxylic acids; and copolymers from the above monomers with unsatd. functional compds. other than carboxylic acids in place of the acids. A 1:1 mixture of aqueous dispersions of 13.8:403.7:67.3:861.3 acrylamide-Bu acrylate-methacrylic acid-styrene copolymer and 99.8:298.7:647.2 Bu acrylate-glycidyl methacrylate-styrene copolymer was spray-dried to give a powder with particle size .apprx.25 μm, glass temperature 49°, DSC exotherm peak 182°, and gel time 20 s at 210°. Use of the products as binders for fiber moldings is exemplified.

IC ICM C08G081-02
ICS C08J003-24; D06M023-08

CC 36-6 (Physical Properties of Synthetic High Polymers)
Section cross-reference(s): 40

ST blend polymer crosslinkable binder; fiber binder polymer blend; reinforced plastic binder polymer blend; acrylate copolymer blend crosslinkable; methacrylic acid copolymer blend; glycidyl methacrylate copolymer blend; styrene copolymer blend crosslinkable

IT Polyamide fibers, miscellaneous
RL: MSC (Miscellaneous)
(aramid; crosslinkable polymer blends as binders for aramid fabrics)

IT Alkadienes
Alkenes, uses
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(copolymers; crosslinkable polymer blends)

IT Textiles
(cotton; crosslinkable polymer blends as binders for cotton fabrics)

IT Binders
(crosslinkable polymer blends as binders)

IT Carbon fibers, miscellaneous
RL: MSC (Miscellaneous)
(crosslinkable polymer blends as binders for carbon fibers)

IT Glass fibers, miscellaneous
RL: MSC (Miscellaneous)
(crosslinkable polymer blends as binders for glass fibers)

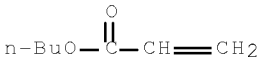
IT Carboxylic acids, uses
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(dicarboxylic, unsatd., copolymers; crosslinkable polymer blends)

IT Reinforced plastics
RL: MSC (Miscellaneous)
(fiber-reinforced; crosslinkable polymer blends as binders

for reinforced plastics)
IT Vinyl compounds, uses
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(halo, copolymers; crosslinkable polymer blends)
IT Carboxylic acids, uses
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(unsatd., copolymers; crosslinkable polymer blends)
IT Aromatic compounds
Vinyl compounds, uses
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(vinyl arenes, copolymers; crosslinkable polymer blends)
IT Esters, uses
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(vinyl, copolymers; crosslinkable polymer blends)
IT 26428-43-3, Butyl acrylate-glycidyl methacrylate-styrene copolymer 50658-98-5, Acrylamide-butyl acrylate-methacrylic acid-styrene copolymer 51601-25-3, Butyl acrylate-methacrylic acid-N-methylolacrylamide-styrene copolymer
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(crosslinkable polymer blends)
IT 26428-43-3, Butyl acrylate-glycidyl methacrylate-styrene copolymer 50658-98-5, Acrylamide-butyl acrylate-methacrylic acid-styrene copolymer 51601-25-3, Butyl acrylate-methacrylic acid-N-methylolacrylamide-styrene copolymer
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(crosslinkable polymer blends)
RN 26428-43-3 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-oxiranylmethyl ester, polymer with butyl 2-propenoate and ethenylbenzene (CA INDEX NAME)

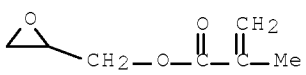
CM 1

CRN 141-32-2
CMF C7 H12 O2



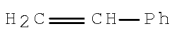
CM 2

CRN 106-91-2
CMF C7 H10 O3



CM 3

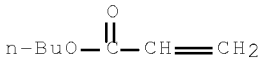
CRN 100-42-5
CMF C8 H8



RN 50658-98-5 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene and 2-propenamide (CA INDEX NAME)

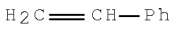
CM 1

CRN 141-32-2
CMF C7 H12 O2



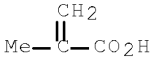
CM 2

CRN 100-42-5
CMF C8 H8



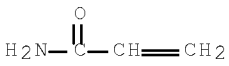
CM 3

CRN 79-41-4
CMF C4 H6 O2



CM 4

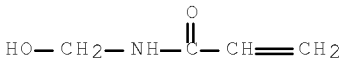
CRN 79-06-1
CMF C3 H5 N O



RN 51601-25-3 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene and N-(hydroxymethyl)-2-propenamide (CA INDEX NAME)

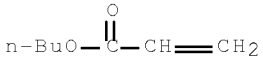
CM 1

CRN 924-42-5
CMF C4 H7 N O2



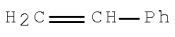
CM 2

CRN 141-32-2
CMF C7 H12 O2



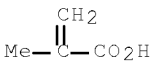
CM 3

CRN 100-42-5
CMF C8 H8



CM 4

CRN 79-41-4
CMF C4 H6 O2



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 20 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2000:865385 CAPLUS Full-text
DOCUMENT NUMBER: 134:44479
TITLE: Acrylic resins for nonaqueous-solvent binder compositions, electrodes, and secondary batteries and manufacture of electrodes
INVENTOR(S): Ito, Toshihiko; Tanaka, Masaru; Hirayama, Takao; Nishimura, Noboru
PATENT ASSIGNEE(S): Hitachi Chemical Co., Ltd., Japan; Hitachi, Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000344838	A	20001212	JP 1999-154043	19990601 <--
PRIORITY APPLN. INFO.:			JP 1999-154043	19990601 <--

AB The title acrylic resins comprise (A) epoxy group-containing (meth)acrylate and (B) nitrile group-containing (meth)acrylate and have glass transition temperature -30 to 25°. The title binder compns. comprise the acrylic resins dissolved or dispersed in nonaq. solvents. Optionally, the compns. comprise epoxy resins and hardening accelerators. The electrodes are manufactured by mixing the binder compns. with active mass, coating them on supports, and then removing nonaq. solvents. Preferably, the active mass is LixMnyO2 (x = 0.2-2.5; y = 0.8-1.25). Resulting electrodes are also claimed. Secondary batteries equipped with anodes and/or cathodes manufactured by above method are also claimed. The acrylic resins have good adhesion, bendability, and electrolyte resistance and resulting batteries show long cycle life, high volume energy d., and safety.

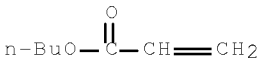
IC ICM C08F220-32
ICS C08F220-42; C08K003-22; C08L033-14; C08L033-18; C08L063-00; H01M004-02; H01M004-04; H01M004-58; H01M004-62; H01M010-40
CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
Section cross-reference(s): 38
IT Battery anodes
Battery cathodes
Battery electrodes
Binders
Safety
(epoxy- and nitrile-containing acrylic resins for nonaq.-solvent binder compns. in electrodes of secondary batteries)
IT 27274-54-0P, Acrylonitrile-butyl acrylate-glycidyl methacrylate copolymer 29437-34-1P, Acrylonitrile-butyl acrylate-ethyl acrylate copolymer 41259-37-4P, Butyl acrylate-ethyl acrylate-glycidyl methacrylate copolymer 58152-79-7P, Acrylonitrile-butyl acrylate-ethyl acrylate-glycidyl methacrylate copolymer 292145-57-4P, Acrylonitrile-butyl acrylate-2-ethylhexyl acrylate-glycidyl methacrylate copolymer
RL: DEV (Device component use); PNU (Preparation, unclassified); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(epoxy- and nitrile-containing acrylic resins for nonaq.-solvent binder compns. in electrodes of secondary batteries)
IT 27274-54-0P, Acrylonitrile-butyl acrylate-glycidyl methacrylate copolymer 41259-37-4P, Butyl acrylate-ethyl acrylate-glycidyl methacrylate copolymer 58152-79-7P, Acrylonitrile-butyl

acrylate-ethyl acrylate-glycidyl methacrylate copolymer
292145-57-4P, Acrylonitrile-butyl acrylate-2-ethylhexyl
acrylate-glycidyl methacrylate copolymer
RL: DEV (Device component use); PNU (Preparation, unclassified); PRP
(Properties); TEM (Technical or engineered material use); PREP
(Preparation); USES (Uses)
(epoxy- and nitrile-containing acrylic resins for nonaq.-solvent binder
compns. in electrodes of secondary batteries)

RN 27274-54-0 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-oxiranylmethyl ester, polymer with butyl
2-propenoate and 2-propenenitrile (CA INDEX NAME)

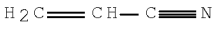
CM 1

CRN 141-32-2
CMF C7 H12 O2



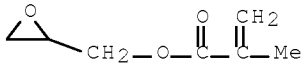
CM 2

CRN 107-13-1
CMF C3 H3 N



CM 3

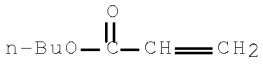
CRN 106-91-2
CMF C7 H10 O3



RN 41259-37-4 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-oxiranylmethyl ester, polymer with butyl
2-propenoate and ethyl 2-propenoate (CA INDEX NAME)

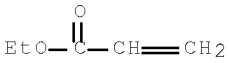
CM 1

CRN 141-32-2
CMF C7 H12 O2



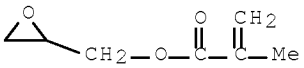
CM 2

CRN 140-88-5
CMF C5 H8 O2



CM 3

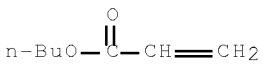
CRN 106-91-2
CMF C7 H10 O3



RN 58152-79-7 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-oxiranylmethyl ester, polymer with butyl 2-propenoate, ethyl 2-propenoate and 2-propenenitrile (CA INDEX NAME)

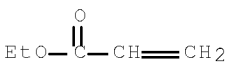
CM 1

CRN 141-32-2
CMF C7 H12 O2



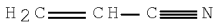
CM 2

CRN 140-88-5
CMF C5 H8 O2



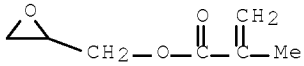
CM 3

CRN 107-13-1
CMF C3 H3 N



CM 4

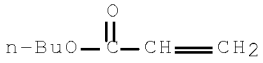
CRN 106-91-2
CMF C7 H10 O3



RN 292145-57-4 CAPLUS
CN 2-Propenoic acid, 2-methyl-, oxiranylmethyl ester, polymer with butyl 2-propenoate, 2-ethylhexyl 2-propenoate and 2-propenenitrile (9CI) (CA INDEX NAME)

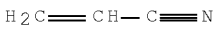
CM 1

CRN 141-32-2
CMF C7 H12 O2



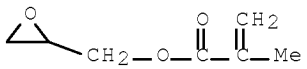
CM 2

CRN 107-13-1
CMF C3 H3 N



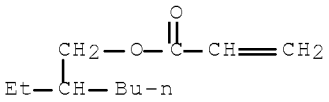
CM 3

CRN 106-91-2
CMF C7 H10 O3



CM 4

CRN 103-11-7
CMF C11 H20 O2



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L95 ANSWER 21 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2000:741036 CAPLUS Full-text
DOCUMENT NUMBER: 133:310310
TITLE: Process of preparing curable compositions and radiation curable compositions
INVENTOR(S): Greenblatt, Garry David; Lange, Barry Clifford; Bowe, Michael Damian; Merritt, Richard Foster; Wilczynski, Robert; Whitman, David William; Brown, Ward Thomas; Beckley, Ronald Scott; Wolfersberger, Martha Harbaugh
PATENT ASSIGNEE(S): Rohm and Haas Co., USA
SOURCE: Eur. Pat. Appl., 22 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 9
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
EP 1044991	A1	20001018	EP 2000-302820		20000404 <--
EP 1044991	B1	20040211			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO					
US 6433098	B1	20020813	US 1999-291425		19990413 <--
US 20020137857	A1	20020926			
AU 775077	B2	20040715	AU 2001-81566		20011023 <--
PRIORITY APPLN. INFO.:			US 1999-291425	A	19990413 <--
			US 1994-258300	B3	19940613 <--
			US 1995-467685	B1	19950606 <--
			US 1997-42725P	P	19970408 <--
			US 1998-34924	B2	19980305 <--
			US 1998-77059P	P	19980306 <--
			AU 1998-59525	A3	19980325 <--
			US 1998-47547	A2	19980325 <--
			US 1998-212038	A2	19981215 <--

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB The title process comprises (a) forming an oligomer from oligomerization of a mixture of a monomer A having a functional group and a monomer B at a temperature 150-650°, and pressure 3-35 MPa and the pressure is high enough to maintain the reaction mixture in a fluid state for a residence time 0.1 s to 4 min, and (b) reacting a modifier having ≥1 reactive moiety with the oligomer, where the modifier further comprises a curable group, e.g. unsatn., which is maintained for later crosslinking. Thus, an oligomer of 38 mol% glycidyl methacrylate and 62 mol% Et acrylate was prepared and esterified using 40 g acrylic acid in the presence of Cr 2-ethylhexanoate and solvent and heated at 90° for 6 h to give a curable oligomer.

IC ICM C08F008-00
ICS C08C019-00

CC 35-8 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 37

IT Adhesives
Binders
Films
Inks
Paints
(oligomer modification for radiation curable compns. for)

IT Crosslinking
(radiochem.; oligomer modification for radiation curable compns.)

IT 302588-17-6P, Acrylic acid-butyl acrylate copolymer ester with glycidyl methacrylate 302588-18-7P, Butyl acrylate-2-hydroxyethyl acrylate copolymer acrylate-trimethylolpropane triacrylate copolymer
RL: IMF (Industrial manufacture); PREP (Preparation)
(UV crosslinked; oligomer modification for radiation curable compns.)

IT 100091-35-8P, Butyl acrylate-glycidyl acrylate copolymer acrylate 107634-49-1P, Butyl acrylate-glycidyl methacrylate copolymer acrylate 302588-15-4P, Butyl acrylate-4-hydroxybutyl acrylate copolymer acrylate 302588-16-5P, Butyl acrylate-2-hydroxyethyl acrylate copolymer acrylate
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(UV crosslinked; oligomer modification for radiation curable compns.)

IT 302588-13-2P, Ethyl acrylate-glycidyl methacrylate copolymer acrylate 302588-19-8P
RL: IMF (Industrial manufacture); PREP (Preparation)
(oligomer modification for radiation curable compns.)

IT 25085-42-1P, Butyl acrylate-4-hydroxybutyl acrylate copolymer 26660-36-6P, Butyl acrylate-glycidyl methacrylate copolymer 32409-50-0P, Butyl acrylate-2-hydroxyethyl acrylate copolymer 64171-34-2P, Butyl acrylate-glycidyl acrylate copolymer
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(oligomer; oligomer modification for radiation curable compns.)

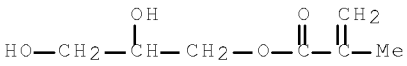
IT 302588-17-6P, Acrylic acid-butyl acrylate copolymer ester with glycidyl methacrylate 302588-18-7P, Butyl acrylate-2-hydroxyethyl acrylate copolymer acrylate-trimethylolpropane triacrylate copolymer
RL: IMF (Industrial manufacture); PREP (Preparation)
(UV crosslinked; oligomer modification for radiation curable compns.)

RN 302588-17-6 CAPLUS

CN 2-Propenoic acid, polymer with butyl 2-propenoate, 2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 5919-74-4
CMF C7 H12 O4

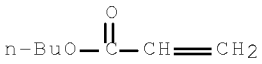


CM 2

CRN 25119-83-9
CMF (C7 H12 O2 . C3 H4 O2)x
CCI PMS

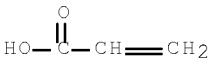
CM 3

CRN 141-32-2
CMF C7 H12 O2



CM 4

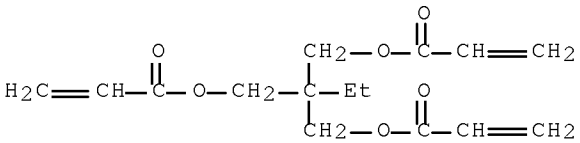
CRN 79-10-7
CMF C3 H4 O2



RN 302588-18-7 CAPLUS
CN 2-Propenoic acid, 2-ethyl-2-[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with butyl 2-propenoate polymer with 2-hydroxyethyl 2-propenoate 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 15625-89-5
CMF C15 H20 O6

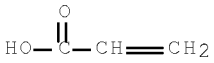


CM 2

CRN 302588-16-5
CMF (C7 H12 O2 . C5 H8 O3)x . x C3 H4 O2

CM 3

CRN 79-10-7
CMF C3 H4 O2

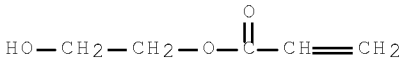


CM 4

CRN 32409-50-0
CMF (C7 H12 O2 . C5 H8 O3)x
CCI PMS

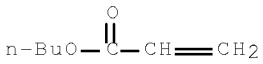
CM 5

CRN 818-61-1
CMF C5 H8 O3



CM 6

CRN 141-32-2
CMF C7 H12 O2

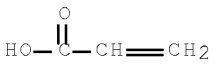


IT 100091-35-8P, Butyl acrylate-glycidyl acrylate copolymer acrylate 107634-49-1P, Butyl acrylate-glycidyl methacrylate copolymer acrylate 302588-15-4P, Butyl acrylate-4-hydroxybutyl acrylate copolymer acrylate 302588-16-5P, Butyl acrylate-2-hydroxyethyl acrylate copolymer acrylate
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(UV crosslinked; oligomer modification for radiation curable compns.)
RN 100091-35-8 CAPLUS

CN 2-Propenoic acid, butyl ester, polymer with oxiranylmethyl 2-propenoate, 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 79-10-7
CMF C3 H4 O2

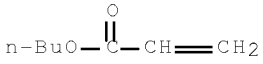


CM 2

CRN 64171-34-2
CMF (C7 H12 O2 . C6 H8 O3)x
CCI PMS

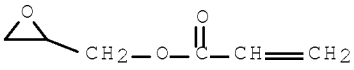
CM 3

CRN 141-32-2
CMF C7 H12 O2



CM 4

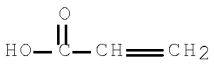
CRN 106-90-1
CMF C6 H8 O3



RN 107634-49-1 CAPLUS
CN 2-Propenoic acid, 2-methyl-, oxiranylmethyl ester, polymer with butyl 2-propenoate, 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 79-10-7
CMF C3 H4 O2

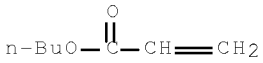


CM 2

CRN 26660-36-6
CMF (C7 H12 O2 . C7 H10 O3)x
CCI PMS

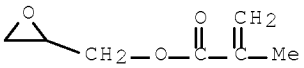
CM 3

CRN 141-32-2
CMF C7 H12 O2



CM 4

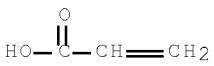
CRN 106-91-2
CMF C7 H10 O3



RN 302588-15-4 CAPLUS
CN 2-Propenoic acid, butyl ester, polymer with 4-hydroxybutyl 2-propenoate, 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 79-10-7
CMF C3 H4 O2

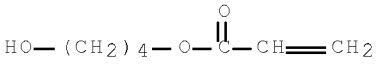


CM 2

CRN 25085-42-1
CMF (C7 H12 O3 . C7 H12 O2)x
CCI PMS

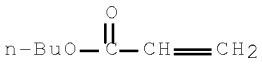
CM 3

CRN 2478-10-6
CMF C7 H12 O3



CM 4

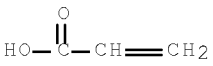
CRN 141-32-2
CMF C7 H12 O2



RN 302588-16-5 CAPLUS
CN 2-Propenoic acid, butyl ester, polymer with 2-hydroxyethyl 2-propenoate, 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 79-10-7
CMF C3 H4 O2

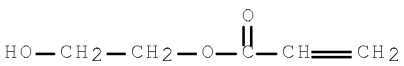


CM 2

CRN 32409-50-0
CMF (C7 H12 O2 . C5 H8 O3)x
CCI PMS

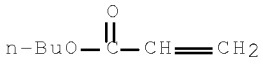
CM 3

CRN 818-61-1
CMF C5 H8 O3



CM 4

CRN 141-32-2
CMF C7 H12 O2

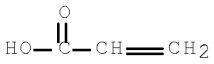


IT 302588-13-2P, Ethyl acrylate-glycidyl methacrylate copolymer acrylate 302588-19-8P
RL: IMF (Industrial manufacture); PREP (Preparation)
(oligomer modification for radiation curable compns.)

RN 302588-13-2 CAPLUS
CN 2-Propenoic acid, 2-methyl-, oxiranylmethyl ester, polymer with ethyl 2-propenoate, 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 79-10-7
CMF C3 H4 O2

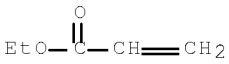


CM 2

CRN 26591-04-8
CMF (C7 H10 O3 . C5 H8 O2)x
CCI PMS

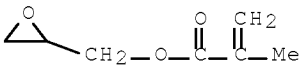
CM 3

CRN 140-88-5
CMF C5 H8 O2



CM 4

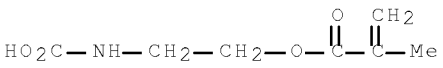
CRN 106-91-2
CMF C7 H10 O3



RN 302588-19-8 CAPLUS
CN 2-Propenoic acid, ethyl ester, polymer with 2-hydroxyethyl 2-propenoate, [2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]carbamate (9CI) (CA INDEX NAME)

CM 1

CRN 96571-20-9
CMF C7 H11 N O4

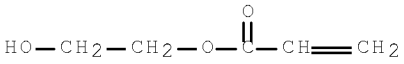


CM 2

CRN 28136-76-7
CMF (C5 H8 O3 . C5 H8 O2)x
CCI PMS

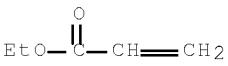
CM 3

CRN 818-61-1
CMF C5 H8 O3



CM 4

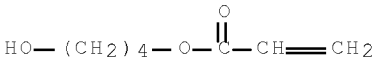
CRN 140-88-5
CMF C5 H8 O2



IT 25085-42-1P, Butyl acrylate-4-hydroxybutyl acrylate copolymer
26660-36-6P, Butyl acrylate-glycidyl methacrylate copolymer
32409-50-0P, Butyl acrylate-2-hydroxyethyl acrylate copolymer
64171-34-2P, Butyl acrylate-glycidyl acrylate copolymer
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(oligomer; oligomer modification for radiation curable compns.)
RN 25085-42-1 CAPLUS
CN 2-Propenoic acid, butyl ester, polymer with 4-hydroxybutyl 2-propenoate (CA INDEX NAME)

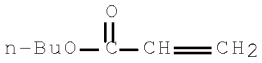
CM 1

CRN 2478-10-6
CMF C7 H12 O3



CM 2

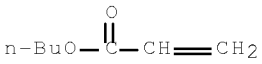
CRN 141-32-2
CMF C7 H12 O2



RN 26660-36-6 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-oxiranylmethyl ester, polymer with butyl 2-propenoate (CA INDEX NAME)

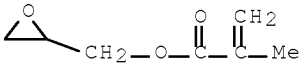
CM 1

CRN 141-32-2
CMF C7 H12 O2



CM 2

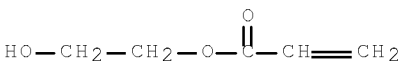
CRN 106-91-2
CMF C7 H10 O3



RN 32409-50-0 CAPLUS
CN 2-Propenoic acid, butyl ester, polymer with 2-hydroxyethyl 2-propenoate (CA INDEX NAME)

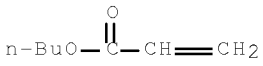
CM 1

CRN 818-61-1
CMF C5 H8 O3



CM 2

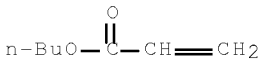
CRN 141-32-2
CMF C7 H12 O2



RN 64171-34-2 CAPLUS
CN 2-Propenoic acid, butyl ester, polymer with 2-oxiranylmethyl 2-propenoate (CA INDEX NAME)

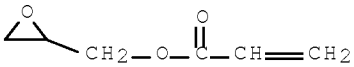
CM 1

CRN 141-32-2
CMF C7 H12 O2



CM 2

CRN 106-90-1
CMF C6 H8 O3



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 22 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2000:377009 CAPLUS Full-text
DOCUMENT NUMBER: 133:18493
TITLE: Composite sheets using crosslinkable binders and fiber sheets
INVENTOR(S): Fujimoto, Mitsuo; Watanabe, Koji; Hashimoto, Takashi
PATENT ASSIGNEE(S): Toray Industries, Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000154479	A	20000606	JP 1998-329454	19981119 <--

PRIORITY APPLN. INFO.: JP 1998-329454 19981119 <--

AB The composite sheets with improved durability, suitable for leather substitutes, comprise (A) fiber sheets made of fine fibers having fineness ≤0.3 dtex and (B) binders containing crosslinkable acrylonitrile polymers and crosslinkable acrylic polymers. Thus, a sheet of poly(ethylene terephthalate) fiber (fineness .apprx.0.06 dtex) was impregnated with a solution containing acrylic acid-acrylonitrile-2-(diisopropylamino)ethyl methacrylate-γ-methacryloxypropyltrimethoxysilane copolymer and acrylonitrile-Bu acrylate-glycidyl methacrylate-γ-methacryloxypropyltrimethoxysilane copolymer, dried, immersed in H2O, and further processed to give an artificial leather showing low discoloration after 150 h-light irradiation

IC ICM D06N003-04
ICS B32B005-02; B32B027-30; D04H001-64

CC 38-3 (Plastics Fabrication and Uses)
Section cross-reference(s): 40

ST acrylonitrile polymer crosslinkable binder composite sheet; acrylic polymer crosslinkable binder composite sheet; diisopropylaminoethyl methacrylate polymer crosslinkable binder sheet; methacryloxytrimethoxysilane polymer crosslinkable binder composite sheet; butyl acrylate polymer crosslinkable binder sheet; glycidyl methacrylate polymer crosslinkable binder sheet; polyethylene terephthalate fiber binder composite sheet; leather substitute crosslinkable binder fiber composite

IT Polysiloxanes, uses
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(acrylic; composite sheets using crosslinkable binders and fiber sheets for leather substitutes with improved durability)

IT Binders
Leather substitutes
(composite sheets using crosslinkable binders and fiber sheets for leather substitutes with improved durability)

IT Polyester fibers, uses
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(composite sheets using crosslinkable binders and fiber sheets for leather substitutes with improved durability)

IT Reinforced plastics
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(fiber-reinforced; composite sheets using crosslinkable binders and fiber sheets for leather substitutes with improved durability)

IT Polyesters, uses
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(fiber; composite sheets using crosslinkable binders and fiber sheets for leather substitutes with improved durability)

IT 271774-96-0P, Acrylic acid-acrylonitrile-2-(diisopropylamino)ethyl methacrylate-γ-methacryloxypropyltrimethoxysilane copolymer
271774-98-2P, Acrylonitrile-butyl acrylate-glycidyl methacrylate-γ-methacryloxypropyltrimethoxysilane copolymer
RL: IMF (Industrial manufacture); RCT (Reactant); TEM (Technical or

engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(binder compo net; composite sheets using crosslinkable binders and fiber sheets for leather substitutes with improved durability)

IT 271774-94-8P, Acrylic acid-acrylonitrile-butyl acrylate-2-(diisopropylamino)ethyl methacrylate-glycidyl methacrylate-γ-methacryloxytrimethoxysilane hydrolytic copolymer
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(composite sheets using crosslinkable binders and fiber sheets for leather substitutes with improved durability)

IT 25038-59-9, Poly(ethylene terephthalate), uses
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(fiber; composite sheets using crosslinkable binders and fiber sheets for leather substitutes with improved durability)

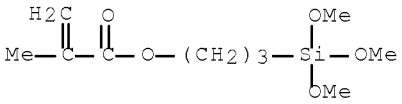
IT 271774-98-2P, Acrylonitrile-butyl acrylate-glycidyl methacrylate-γ-methacryloxypropyltrimethoxysilane copolymer
RL: IMF (Industrial manufacture); RCT (Reactant); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(binder compo net; composite sheets using crosslinkable binders and fiber sheets for leather substitutes with improved durability)

RN 271774-98-2 CAPLUS

CN 2-Propenoic acid, 2-methyl-, oxiranylmethyl ester, polymer with butyl 2-propenoate, 2-propenenitrile and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

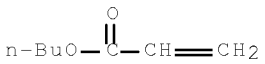
CM 1

CRN 2530-85-0
CMF C10 H20 O5 Si



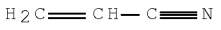
CM 2

CRN 141-32-2
CMF C7 H12 O2



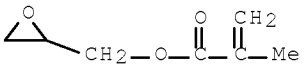
CM 3

CRN 107-13-1
CMF C3 H3 N



CM 4

CRN 106-91-2
CMF C7 H10 O3

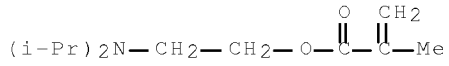


IT 271774-94-8P, Acrylic acid-acrylonitrile-butyl acrylate-2-(diisopropylamino)ethyl methacrylate-glycidyl methacrylate-γ-methacryloxytrimethoxysilane hydrolytic copolymer
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(composite sheets using crosslinkable binders and fiber sheets for leather substitutes with improved durability)

RN 271774-94-8 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-[bis(1-methylethyl)amino]ethyl ester, polymer with butyl 2-propenoate, oxiranylmethyl 2-methyl-2-propenoate, 2-propenenitrile, 2-propenoic acid and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

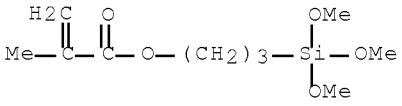
CM 1

CRN 16715-83-6
CMF C12 H23 N O2



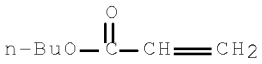
CM 2

CRN 2530-85-0
CMF C10 H20 O5 Si



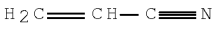
CM 3

CRN 141-32-2
CMF C7 H12 O2



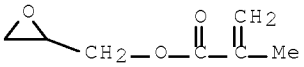
CM 4

CRN 107-13-1
CMF C3 H3 N



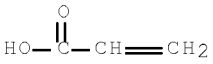
CM 5

CRN 106-91-2
CMF C7 H10 O3



CM 6

CRN 79-10-7
CMF C3 H4 O2



L95 ANSWER 23 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2000:96099 CAPLUS Full-text
DOCUMENT NUMBER: 132:125354
TITLE: Compositions for batteries with lithium ion containing electrolytes
INVENTOR(S): Moehwald, Helmut; Doetter, Gerhard; Blum, Rainer; Keller, Peter; Bauer, Stephan; Bronstert, Bernd
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: Ger. Offen., 32 pp.

CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19835615	A1	20000210	DE 1998-19835615	19980806 <--
TW 480757	B	20020321	TW 1999-88113392	19990805 <--
CA 2339617	A1	20000217	CA 1999-2339617	19990806 <--
CA 2339617	C	20090414		
WO 2000008068	A1	20000217	WO 1999-EP5702	19990806 <--
W: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HR, HU, ID, IL, IN, JP, KR, KZ, LT, LV, MK, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, ZA, AM, AZ, KG, MD, TJ, TM				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9954206	A	20000228	AU 1999-54206	19990806 <--
EP 1109841	A1	20010627	EP 1999-940163	19990806 <--
EP 1109841	B1	20020327		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002522872	T	20020723	JP 2000-563699	19990806 <--
JP 3954308	B2	20070808		
ES 2176017	T3	20021116	ES 1999-940163	19990806 <--
US 6475663	B1	20021105	US 2001-762076	20010201 <--

PRIORITY APPLN. INFO.: DE 1998-19835615 A 19980806 <--
WO 1999-EP5702 W 19990806 <--

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB The title composition contains (a) ≤1 weight% of a pigment (I) with a primary particle size of 5 nm to 100 μm, which is a solid Ia or a battery cathode active material (Ib) or a an anode active material (Ic) or a mixture of the solid Ia with the compound Ib or the compound Ic, and (b) more than 99 to 100 weight% of a polymer material (II), which comprises 1 to 100 weight% of a polymer or a copolymer (IIa) containing chains and/or reactive groups on the sides which are capable of crosslinking reactions thermally and/or under UV radiation, and 0 to 99 weight% at least one polymer or copolymer (IIb), which is free of reactive groups.

IC ICM H01M004-62
ICS H01G009-025; G01N027-406

CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
Section cross-reference(s): 38, 74

IT Battery anodes
Battery cathodes
Battery electrolytes
Capacitors
Electrodes
Optical imaging devices
Sensors
Solid electrolytes
(compns. for batteries with lithium ion containing electrolytes)

IT 96-49-1, Ethylene carbonate 105-58-8 1137-42-4D, 4-Hydroxybenzophenone, reaction product with lauryl acrylate-dihydrodicyclopentadienyl acrylate-glycidyl methacrylate-ethylhexylacrylate copolymer 9011-17-0, Hexafluoropropylene-vinylidene fluoride copolymer 12190-79-3, Cobalt lithium oxide colio2 21324-40-3, Lithium hexafluorophosphate 249756-67-0D, Lauryl acrylate-dihydrodicyclopentadienyl acrylate-glycidyl methacrylate-ethylhexylacrylate copolymer, reaction

product with 4-hydroxybenzophenone
RL: DEV (Device component use); USES (Uses)
(compns. for batteries with lithium ion containing electrolytes)

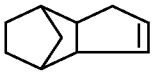
IT 249756-67-0D, Lauryl acrylate-dihydrodicyclopentadienyl acrylate-glycidyl methacrylate-ethylhexylacrylate copolymer, reaction product with 4-hydroxybenzophenone
RL: DEV (Device component use); USES (Uses)
(compns. for batteries with lithium ion containing electrolytes)

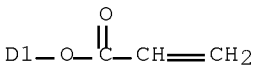
RN 249756-67-0 CAPLUS

CN 2-Propenoic acid, 2-methyl-, oxiranylmethyl ester, polymer with dodecyl 2-propenoate, 2-ethylhexyl 2-propenoate and 3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-5(or 6)-yl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

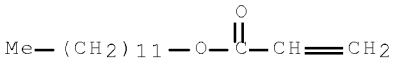
CRN 903574-98-1
CMF C13 H16 O2
CCI IDS





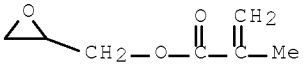
CM 2

CRN 2156-97-0
CMF C15 H28 O2



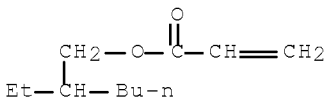
CM 3

CRN 106-91-2
CMF C7 H10 O3



CM 4

CRN 103-11-7
CMF C11 H20 O2



OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS)

L95 ANSWER 24 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1999:723073 CAPLUS Full-text
DOCUMENT NUMBER: 131:338050
TITLE: Compositions suitable for electrochemical cells
INVENTOR(S): Mohwald, Helmut; Dotter, Gerhard; Blum, Rainer; Keller, Peter; Bauer, Stephan; Bronstert, Bernd
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 77 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 9957161	A1	19991111	WO 1999-EP3028		19990504 <--
W: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HU, ID, IL, IN, JP, KR, KZ, LT, LV, MK, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, ZA, AM, AZ, KG, MD, TJ, TM					
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE					
DE 19819752	A1	19991111	DE 1998-19819752		19980504 <--
CA 2331040	A1	19991111	CA 1999-2331040		19990504 <--
CA 2331040	C	20091110			
AU 9938269	A	19991123	AU 1999-38269		19990504 <--
EP 1088007	A1	20010404	EP 1999-920845		19990504 <--
EP 1088007	B1	20030226			
R: DE, ES, FR, GB, IT					
TW 478188	B	20020301	TW 1999-88107245		19990504 <--
JP 2002513986	T	20020514	JP 2000-547129		19990504 <--
JP 3904392	B2	20070411			
ES 2194459	T3	20031116	ES 1999-920845		19990504 <--
CN 1146588	C	20040421	CN 1999-808250		19990504 <--
MX 2000010761	A	20010911	MX 2000-10761		20001101 <--
US 6991874	B1	20060131	US 2000-674541		20001102 <--
PRIORITY APPLN. INFO.:			DE 1998-19819752	A	19980504 <--
			WO 1999-EP3028	W	19990504 <--

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB The title compns., which do not require inert gases for processing and are useful as electrodes, solid electrolytes, separators, etc., contain 1-99% pigments (primary particle size 5 nm-100 μm) and 99-1% polymers (1-100% polymers bearing groups crosslinkable by heat and/or UV; 99-0% polymers free from such reactive groups). A mixture of hydrophobized wollastonite 20, Me2CO 15, C3F6-CH2:CF2 copolymer (Kynarflex 2801) 6 and 300:480:120:100

dihydrodicyclopentadienyl acrylate-2-ethylhexyl acrylate-glycidyl methacrylate-lauryl acrylate copolymer 4.6 in xylene 34, and tris(2-ethylhexyl) phosphate 2.8 g was coated (30 μm dry basis) on a solid support at 60°, dried, and cured photochem. to give a solid electrolyte useful with LiCoO2 cathodes and graphite anodes.

IC ICM C08F008-00
ICS H01M010-40

CC 38-3 (Plastics Fabrication and Uses)
Section cross-reference(s): 42, 72

IT Anodes
Capacitors
Cathodes
Electrochemical cells
Pigments, nonbiological
Solid electrolytes
(compns. suitable for electrochem. cells)

IT 9002-84-0 9002-88-4 9003-07-0 9003-53-6 24937-79-9
249756-67-0 249756-68-1
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(compns. suitable for electrochem. cells)

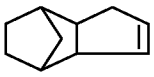
IT 249756-67-0 249756-68-1
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(compns. suitable for electrochem. cells)

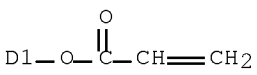
RN 249756-67-0 CAPLUS

CN 2-Propenoic acid, 2-methyl-, oxiranylmethyl ester, polymer with dodecyl 2-propenoate, 2-ethylhexyl 2-propenoate and 3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-5(or 6)-yl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

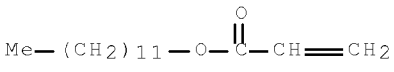
CRN 903574-98-1
CMF C13 H16 O2
CCI IDS





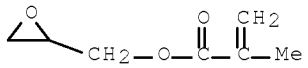
CM 2

CRN 2156-97-0
CMF C15 H28 O2



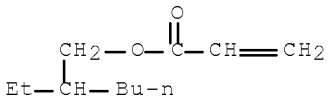
CM 3

CRN 106-91-2
CMF C7 H10 O3



CM 4

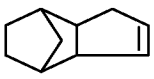
CRN 103-11-7
CMF C11 H20 O2

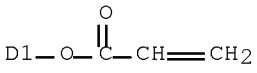


RN 249756-68-1 CAPLUS
CN 2-Propenoic acid, 2-methyl-, oxiranylmethyl ester, polymer with 2-ethylhexyl 2-propenoate and 3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-5(or 6)-yl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

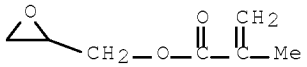
CRN 903574-98-1
CMF C13 H16 O2
CCI IDS





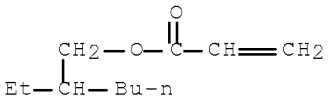
CM 2

CRN 106-91-2
CMF C7 H10 O3



CM 3

CRN 103-11-7
CMF C11 H20 O2



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 25 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1999:392849 CAPLUS Full-text
DOCUMENT NUMBER: 131:33836
TITLE: Battery binders, battery electrolyte slurries, electrodes for secondary lithium batteries and the batteries
INVENTOR(S): Maeda, Koichiro; Nakayama, Akira; Miki, Hideo; Yamamoto, Akihika
PATENT ASSIGNEE(S): Nippon Zeon Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11167921	A	19990622	JP 1997-347242	19971202 <--
JP 4438102	B2	20100324		
PRIORITY APPLN. INFO.:			JP 1997-347242	19971202 <--

AB The binders are crosslinked polymer particles formed by post crosslinking polymer particles containing ≤30% un-polymerized monomers. The battery electrodes are prepared from electrode slurries containing the binder, the electrode active mass, and a liquid
IC ICM H01M004-62
ICS H01M004-02; H01M010-40
CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
ST lithium battery electrode crosslinked polymer binder
IT Battery electrodes
Binders
(post crosslinked polymer binders for electrode active mass slurries for secondary lithium batteries)
IT 71426-98-7

RL: DEV (Device component use); USES (Uses)
(core particles for polymer binders for electrode active mass slurries for secondary lithium batteries)

IT 34150-22-6 35919-18-7 53754-89-5
RL: DEV (Device component use); USES (Uses)
(crosslinked; post crosslinked polymer binders for electrode active mass slurries for secondary lithium batteries)

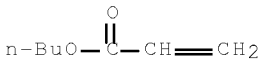
IT 7440-44-0, Carbon, uses 79487-16-4 226886-67-5
RL: DEV (Device component use); USES (Uses)
(post crosslinked polymer binders for electrode active mass slurries for secondary lithium batteries)

IT 71426-98-7
RL: DEV (Device component use); USES (Uses)
(core particles for polymer binders for electrode active mass slurries for secondary lithium batteries)

RN 71426-98-7 CAPLUS
CN Butanedioic acid, 2-methylene-, polymer with 1,3-butadiene, butyl 2-propenoate and ethenylbenzene (CA INDEX NAME)

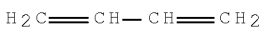
CM 1

CRN 141-32-2
CMF C7 H12 O2



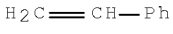
CM 2

CRN 106-99-0
CMF C4 H6



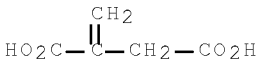
CM 3

CRN 100-42-5
CMF C8 H8



CM 4

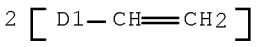
CRN 97-65-4
CMF C5 H6 O4



IT 79487-16-4 226986-67-5
RL: DEV (Device component use); USES (Uses)
(post crosslinked polymer binders for electrode active mass slurries for secondary lithium batteries)
RN 79487-16-4 CAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, diethenylbenzene and 2-propenoic acid (CA INDEX NAME)

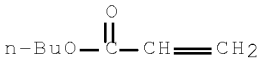
CM 1

CRN 1321-74-0
CMF C10 H10
CCI IDS



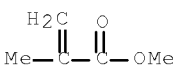
CM 2

CRN 141-32-2
CMF C7 H12 O2



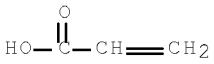
CM 3

CRN 80-62-6
CMF C5 H8 O2



CM 4

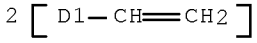
CRN 79-10-7
CMF C3 H4 O2



RN 226886-67-5 CAPLUS
CN 2-Butenedioic acid (2Z)-, polymer with 1,3-butadiene, butyl 2-propenoate, diethenylbenzene, ethenylbenzene, methylenebutanedioic acid and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

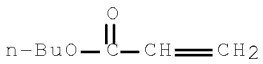
CM 1

CRN 1321-74-0
CMF C10 H10
CCI IDS



CM 2

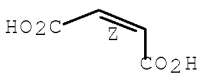
CRN 141-32-2
CMF C7 H12 O2



CM 3

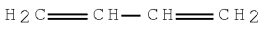
CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.



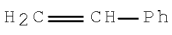
CM 4

CRN 106-99-0
CMF C4 H6



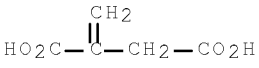
CM 5

CRN 100-42-5
CMF C8 H8



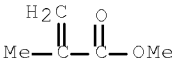
CM 6

CRN 97-65-4
CMF C5 H6 O4



CM 7

CRN 80-62-6
CMF C5 H8 O2



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L95 ANSWER 26 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1999:12432 CAPLUS Full-text
DOCUMENT NUMBER: 130:67258
TITLE: Crosslinkable acrylic polymer compositions and their uses
INVENTOR(S): Lau, Willie; Finley, Maureen Joanne; Williams, Martin Marion; Morris, Hal Conley
PATENT ASSIGNEE(S): Rohm and Haas Company, USA
SOURCE: Eur. Pat. Appl., 10 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

EP 885906	A2	19981223	EP 1998-304464	19980605 <--
EP 885906	A3	19991201		
EP 885906	B1	20030212		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
AU 9869967	A	19981224	AU 1998-69967	19980609 <--
AU 755987	B2	20030102		
CA 2240613	A1	19981220	CA 1998-2240613	19980612 <--
BR 9802029	A	19991214	BR 1998-2029	19980618 <--
US 6191244	B1	20010220	US 1998-99312	19980618 <--
CN 1203245	A	19981230	CN 1998-114949	19980619 <--
CN 1188462	C	20050209		
JP 11106437	A	19990420	JP 1998-174389	19980622 <--
US 6225242	B1	20010501	US 2000-562342	20000501 <--
US 20010005734	A1	20010628	US 2001-776190	20010205 <--
US 6300409	B1	20011009		
PRIORITY APPLN. INFO.:			US 1997-50390P P	19970620 <--
			US 1998-99312 A3	19980618 <--
			US 2000-562342 A3	20000501 <--

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB The composition, useful as a binder for finishing fabrics and paper to improved water repellency and durability, comprises (A) a polymer obtained from 9.5-99.9 parts ≥1 C12-40 alkyl ester (meth)acrylate, 0-90 parts ≥1 C≤15 ethylenically unsatd. monomer, 0-90 parts ≥1 ethylenically unsatd. acid or its salt and 0.1-10 parts ≥1 crosslinkable monomer (such as methacrylamide and N-methylmethacrylamide); and (B) optionally ≥1 crosslinking agent.

IC ICM C08F220-18
ICS D06M015-263

CC 37-6 (Plastics Manufacture and Processing)
Section cross-reference(s): 40, 43

ST acrylic polymer latex finishing nonwoven fabric water repellency; durability crosslinkable acrylic polymer emulsion finishing paper

IT Aminoplasts
RL: MOA (Modifier or additive use); USES (Uses)
(Aricel PC 6A, crosslinking agent; crosslinkable acrylic polymer compns. for finishing fabrics and paper to improved water repellency and durability)

IT Nonwoven fabrics
Paper
Textiles
(crosslinkable acrylic polymer compns. for)

IT Binders
Crosslinking agents
(crosslinkable acrylic polymer compns. for finishing fabrics and paper to improved water repellency and durability)

IT Polymerization
(emulsion; crosslinkable acrylic polymer compns. for finishing fabrics and paper to improved water repellency and durability)

IT Polyester fibers, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(fabrics; crosslinkable acrylic polymer compns. for)

IT 9003-08-1, Cymel 303
RL: MOA (Modifier or additive use); USES (Uses)
(Aricel PC 6A, crosslinking agent; crosslinkable acrylic polymer compns. for finishing fabrics and paper to improved water repellency and durability)

IT 218147-18-3P 218147-19-4P 218147-21-8P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(crosslinkable acrylic polymer compns. for finishing fabrics and paper to improved water repellency and durability)

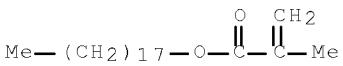
IT 218147-18-3P 218147-19-4P 218147-21-8P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(crosslinkable acrylic polymer compns. for finishing fabrics and paper to improved water repellency and durability)

RN 218147-18-3 CAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, dodecyl 2-methyl-2-propenoate, N-(hydroxymethyl)-2-methyl-2-propenamide, methyl 2-methyl-2-propenoate, 2-methyl-2-propenamide and octadecyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

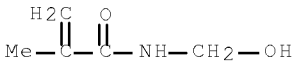
CM 1

CRN 32360-05-7
CMF C22 H42 O2



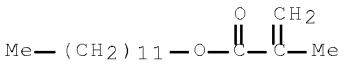
CM 2

CRN 923-02-4
CMF C5 H9 N O2



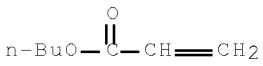
CM 3

CRN 142-90-5
CMF C16 H30 O2



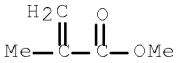
CM 4

CRN 141-32-2
CMF C7 H12 O2



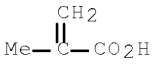
CM 5

CRN 80-62-6
CMF C5 H8 O2



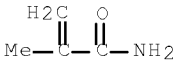
CM 6

CRN 79-41-4
CMF C4 H6 O2



CM 7

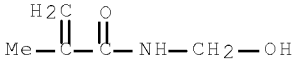
CRN 79-39-0
CMF C4 H7 N O



RN 218147-19-4 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, dodecyl 2-methyl-2-propenoate, N-(hydroxymethyl)-2-methyl-2-propenamide, methyl 2-methyl-2-propenoate and 2-propenamide, graft (9CI) (CA INDEX NAME)

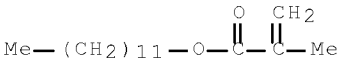
CM 1

CRN 923-02-4
CMF C5 H9 N O2



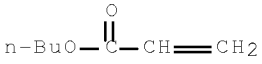
CM 2

CRN 142-90-5
CMF C16 H30 O2



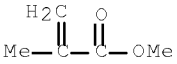
CM 3

CRN 141-32-2
CMF C7 H12 O2



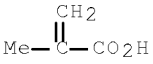
CM 4

CRN 80-62-6
CMF C5 H8 O2



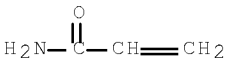
CM 5

CRN 79-41-4
CMF C4 H6 O2



CM 6

CRN 79-06-1
CMF C3 H5 N O

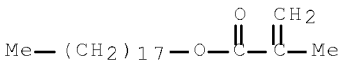


RN 218147-21-8 CAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, dodecyl 2-methyl-2-propenoate, N-(hydroxymethyl)-2-methyl-2-propenamide, methyl 2-methyl-2-propenoate, octadecyl 2-methyl-2-propenoate and 2-propenamide, graft (9CI) (CA INDEX NAME)

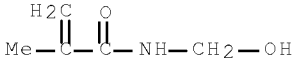
CM 1

CRN 32360-05-7
CMF C22 H42 O2



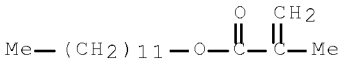
CM 2

CRN 923-02-4
CMF C5 H9 N O2



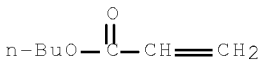
CM 3

CRN 142-90-5
CMF C16 H30 O2



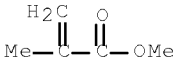
CM 4

CRN 141-32-2
CMF C7 H12 O2



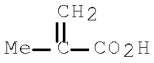
CM 5

CRN 80-62-6
CMF C5 H8 O2



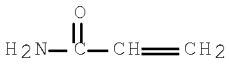
CM 6

CRN 79-41-4
CMF C4 H6 O2



CM 7

CRN 79-06-1
CMF C3 H5 N O



OS.CITING REF COUNT: 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (17 CITINGS)

L95 ANSWER 27 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1998:806721 CAPLUS Full-text
DOCUMENT NUMBER: 130:53762
TITLE: Thermally stable and moisture-curable powder-paint binder compositions
INVENTOR(S): Stanssens, Dirk Armand Wim; Van Benthem, Rudolfus Antonius Theodorus Maria; Hendriks, Patrick Herman Marie
PATENT ASSIGNEE(S): Dsm N.V., Neth.
SOURCE: PCT Int. Appl., 31 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9855550	A1	19981210	WO 1998-NL320	19980602 <--
W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, ID, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
NL 1006251	C2	19981208	NL 1997-1006251	19970606 <--

AU 9876779 A 19981221 AU 1998-76779 19980602 <--
PRIORITY APPLN. INFO.: NL 1997-1006251 A 19970606 <--
WO 1998-NL320 W 19980602 <--

AB Thermally stable, moisture-curable powder paint binder composition with a Tg of 30° or a melting temperature of 30° comprises a polymer and optionally a crosslinker. At least one of these components contains a moisture-latent reactive group. The polymer is selected from the group consisting of a saturated polyester, unsatd. polyester, polyacrylate, polyurethane, polycarbonate, polybutadiene, polystyrene, polysiloxane, or a copolymer hereof. The moisture-latent reactive group is a moisture-latent amine group, a hydrolyzable silyl group, a moisture-latent alc., a moisture-latent acid, a moisture-latent aldehyde group or a moisture-latent ketone group.

IC ICM C09D005-03
ICS C08G063-91

CC 42-10 (Coatings, Inks, and Related Products)

IT Binders
(thermally stable and moisture-curable powder-paint binder compns.)

IT 24801-88-5DP, 3-Isocyanatopropyltriethoxysilane, reaction products with polyesters 26811-89-2DP, Isophthalic acid-neopentyl glycol copolymer, reaction products with isocyanatopropyltriethoxysilane 26913-26-8DP, Isophthalic acid-neopentyl glycol copolymer,sru, reaction products with isocyanatopropyltriethoxysilane 30261-69-9DP, Glycidyl methacrylate-methyl methacrylate-butyl acrylate copolymer, cyclic carbonate-functional group-containing
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(thermally stable and moisture-curable powder-paint binder compns.)

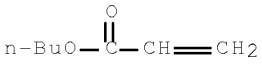
IT 30261-69-9DP, Glycidyl methacrylate-methyl methacrylate-butyl acrylate copolymer, cyclic carbonate-functional group-containing
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(thermally stable and moisture-curable powder-paint binder compns.)

RN 30261-69-9 CAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate and 2-oxiranylmethyl 2-methyl-2-propenoate (CA INDEX NAME)

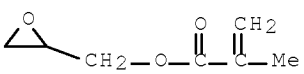
CM 1

CRN 141-32-2
CMF C7 H12 O2



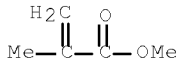
CM 2

CRN 106-91-2
CMF C7 H10 O3



CM 3

CRN 80-62-6
CMF C5 H8 O2



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 28 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1998:786159 CAPLUS Full-text
DOCUMENT NUMBER: 130:67550
TITLE: Manufacture of moldings with lightweight and good strength for building materials
INVENTOR(S): Tanaka, Koichi; Doi, Kiyoto; Ueda, Kyoichi; Kodo, Nobuhiko
PATENT ASSIGNEE(S): Mitsui Chemicals Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10324581	A	19981208	JP 1997-133112	19970523 <--
PRIORITY APPLN. INFO.:			JP 1997-133112	19970523 <--

AB Moldings are manufactured by mixing inorg. cellular particles with binders comprising isocyanates and ≥1 compound chosen from amino resins, phenolic resins, acrylic emulsions, and/or starch, hot pressing, and drying. Thus, Shirasu balloon 100, HCHO-urea-melamine copolymer 13, U-Loid UR 4000 3, and H2O 8 parts were mixed, spread in a frame, pressed at 80°, and dried at 180° to give a 9-mm thickness mat, which was left at 20° and 60% relative humidity for 1 wk to show d. 0.38 g/cm3, thickness 9.02 mm, and bending strength 221 N/cm2 (at 25°) and 185 N/cm2 (at 40°).

IC ICM C04B038-08
ICS C04B038-00
CC 38-3 (Plastics Fabrication and Uses)
Section cross-reference(s): 58
IT Binders
Cellular materials
Construction materials
Lightweight materials
(manufacture of lightweight moldings containing inorg. cellular particles and
polymer binders for building materials)
IT Aminoplasts
Phenolic resins, uses
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(polyisocyanate-crosslinked; manufacture of lightweight moldings containing inorg. cellular particles and polymer binders for building materials)

IT 200506-57-6P, Formaldehyde-phenol-U-Loid UR 4000 copolymer
218297-79-1P, Butyl acrylate-glycidyl methacrylate-methyl methacrylate-U-Loid UR 4000 copolymer 218297-80-4P 218297-81-5P, Formaldehyde-melamine-starch-urea-U-Loid UR 4000 copolymer
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(manufacture of lightweight moldings containing inorg. cellular particles and
polymer binders for building materials)

IT 9003-35-4P, Formaldehyde-phenol copolymer 25036-13-9P, Formaldehyde-melamine-urea copolymer 30261-69-9P, Butyl acrylate-glycidyl methacrylate-methyl methacrylate copolymer
138981-63-2P, Formaldehyde-melamine-starch-urea copolymer
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(manufacture of lightweight moldings containing inorg. cellular particles and
polymer binders for building materials)

IT 218297-79-1P, Butyl acrylate-glycidyl methacrylate-methyl methacrylate-U-Loid UR 4000 copolymer
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(manufacture of lightweight moldings containing inorg. cellular particles and
polymer binders for building materials)

RN 218297-79-1 CAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, oxiranylmethyl 2-methyl-2-propenoate and U-Loid UR 4000 (9CI) (CA INDEX NAME)

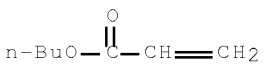
CM 1

CRN 97397-26-7
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

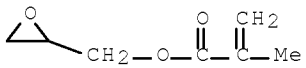
CM 2

CRN 141-32-2
CMF C7 H12 O2



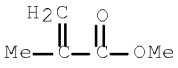
CM 3

CRN 106-91-2
CMF C7 H10 O3



CM 4

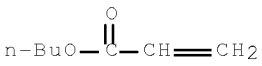
CRN 80-62-6
CMF C5 H8 O2



IT 30261-69-9P, Butyl acrylate-glycidyl methacrylate-methyl methacrylate copolymer
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(manufacture of lightweight moldings containing inorg. cellular particles and
polymer binders for building materials)
RN 30261-69-9 CAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate and 2-oxiranylmethyl 2-methyl-2-propenoate (CA INDEX NAME)

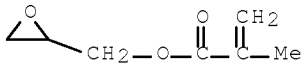
CM 1

CRN 141-32-2
CMF C7 H12 O2



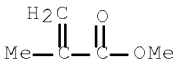
CM 2

CRN 106-91-2
CMF C7 H10 O3



CM 3

CRN 80-62-6
CMF C5 H8 O2



L95 ANSWER 29 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1998:735538 CAPLUS Full-text
DOCUMENT NUMBER: 130:40968
TITLE: Polymeric binders for nonaqueous battery electrodes
INVENTOR(S): Noritake, Masayoshi; Ito, Nobuyuki
PATENT ASSIGNEE(S): JSR Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10302799	A	19981113	JP 1997-121444	19970425 <--
JP 3601250	B2	20041215		

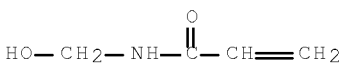
PRIORITY APPLN. INFO.: JP 1997-121444 19970425 <--

AB The binders are aqueous dispersions containing vinylidene fluoride polymers having functional groups. Use of the binders give batteries with high performance and storage stability.

IC ICM H01M004-62
ICS C08L027-16
CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
Section cross-reference(s): 35
IT Battery electrodes
Binders
(vinylidene fluoride polymers as binders for nonaq. battery electrodes)
IT 216673-45-9P 216673-56-2P 216673-66-4P
RL: DEV (Device component use); PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(vinylidene fluoride polymers as binders for nonaq. battery electrodes)
IT 216673-45-9P 216673-56-2P 216673-66-4P
RL: DEV (Device component use); PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(vinylidene fluoride polymers as binders for nonaq. battery electrodes)
RN 216673-45-9 CAPLUS
CN Butanedioic acid, methylene-, polymer with butyl 2-propenoate, 1,1-difluoroethene, 1,1,2,3,3,3-hexafluoro-1-propene, N-(hydroxymethyl)-2-propenamide, methyl 2-methyl-2-propenoate and 2-propenoic acid, graft (9CI) (CA INDEX NAME)

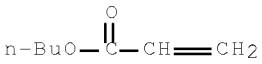
CM 1

CRN 924-42-5
CMF C4 H7 N O2



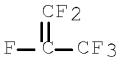
CM 2

CRN 141-32-2
CMF C7 H12 O2



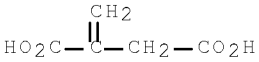
CM 3

CRN 116-15-4
CMF C3 F6



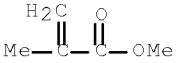
CM 4

CRN 97-65-4
CMF C5 H6 O4



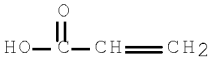
CM 5

CRN 80-62-6
CMF C5 H8 O2



CM 6

CRN 79-10-7
CMF C3 H4 O2



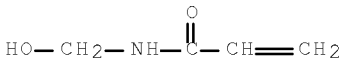
CM 7

CRN 75-38-7
CMF C2 H2 F2

RN 216673-56-2 CAPLUS
CN 2-Propenoic acid, polymer with butyl 2-propenoate, 1,1-difluoroethene, ethenylbenzene, 1,1,2,3,3,3-hexafluoro-1-propene and N-(hydroxymethyl)-2-propenamide, graft (9CI) (CA INDEX NAME)

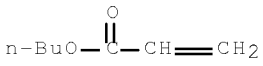
CM 1

CRN 924-42-5
CMF C4 H7 N O2



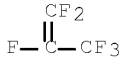
CM 2

CRN 141-32-2
CMF C7 H12 O2



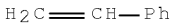
CM 3

CRN 116-15-4
CMF C3 F6



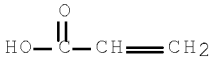
CM 4

CRN 100-42-5
CMF C8 H8



CM 5

CRN 79-10-7
CMF C3 H4 O2



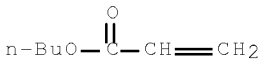
CM 6

CRN 75-38-7
CMF C2 H2 F2

RN 216673-66-4 CAPLUS
CN Butanedioic acid, methylene-, polymer with butyl 2-propenoate, 1,1-difluoroethene, 1,1,2,3,3,3-hexafluoro-1-propene, methyl 2-methyl-2-propenoate, oxiranylmethyl 2-methyl-2-propenoate and 2-propenoic acid, graft (9CI) (CA INDEX NAME)

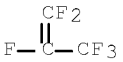
CM 1

CRN 141-32-2
CMF C7 H12 O2



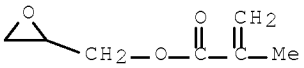
CM 2

CRN 116-15-4
CMF C3 F6



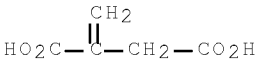
CM 3

CRN 106-91-2
CMF C7 H10 O3



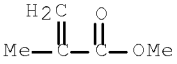
CM 4

CRN 97-65-4
CMF C5 H6 O4



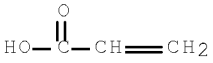
CM 5

CRN 80-62-6
CMF C5 H8 O2



CM 6

CRN 79-10-7
CMF C3 H4 O2



CM 7

CRN 75-38-7
CMF C2 H2 F2

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

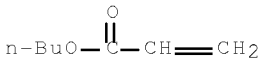
L95 ANSWER 30 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1998:631684 CAPLUS Full-text
DOCUMENT NUMBER: 129:253552
ORIGINAL REFERENCE NO.: 129:51461a,51464a
TITLE: Binder for dielectric ceramic material providing green sheet with high toughness under pressure
INVENTOR(S): Sasaki, Michiyuki
PATENT ASSIGNEE(S): TDK Electronics Co., Ltd., Japan; TDK Corporation
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10259062	A	19980929	JP 1997-63620	19970317 <--
JP 3743588	B2	20060208		
PRIORITY APPLN. INFO.:			JP 1997-63620	19970317 <--

AB The binder comprises a copolymer of C1-6-alkyl methacrylate, C1-6-alkyl acrylate, and a fatty acid and shows Mn 15,000-220,000, Mw 75,000-800,000, and Mw/Mn 2.0-6.7.
IC ICM C04B035-632
ICS C08F002-18; C09J133-12
CC 76-10 (Electric Phenomena)
Section cross-reference(s): 38, 57
IT Binders
Slurries
(binder for dielec. ceramic material providing green sheet with high toughness under pressure)
IT Ceramic capacitors
(multilayer; binder for dielec. ceramic material providing green sheet with high toughness under pressure)
IT 12047-27-7, Barium titanate, processes 26300-51-6, Acrylic acid-butyl acrylate-methyl methacrylate copolymer
RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(binder for dielec. ceramic material providing green sheet with high toughness under pressure)
IT 26300-51-6, Acrylic acid-butyl acrylate-methyl methacrylate copolymer
RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(binder for dielec. ceramic material providing green sheet with high toughness under pressure)
RN 26300-51-6 CAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate and 2-propenoic acid (CA INDEX NAME)

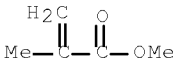
CM 1

CRN 141-32-2
CMF C7 H12 O2



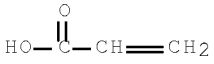
CM 2

CRN 80-62-6
CMF C5 H8 O2



CM 3

CRN 79-10-7
CMF C3 H4 O2



L95 ANSWER 31 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1998:614400 CAPLUS Full-text
DOCUMENT NUMBER: 129:291124
ORIGINAL REFERENCE NO.: 129:59321a,59324a
TITLE: Aqueous acrylic resin compositions with excellent flexibility and water, heat, and solvent resistance
INVENTOR(S): Sato, Masaaki; Kuroume, Masanari
PATENT ASSIGNEE(S): Nippon Carbide Industries Co., Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10251474	A	19980922	JP 1997-69000	19970307 <--
JP 3391649	B2	20030331		

PRIORITY APPLN. INFO.: JP 1997-69000 19970307 <--

AB The compns., useful for sizes, coatings, and binders, comprise (A) water-dispersible acrylic copolymers having groups (excluding oxazoline group) reactive to oxazoline-reactive groups, (B) water-soluble or water-dispersible macromols. (excluding A) containing oxazoline-reactive groups, and (C) oxazoline-containing water-soluble macromols. Thus, blending 200 parts aqueous dispersion of 50:34.9:10:5:0.1 (%) Et acrylate (I)-Bu acrylate (II)-acrylonitrile-glycidyl methacrylate-acrylic acid copolymer (solids 50.1 %) with 23 parts 30:30:40 (%) I-II-methacrylic acid copolymer (solids 30%) and

12.5 parts Epocros WS 500 (solids 40%) gave a composition showing pH 7.6, solids 46.1%, and viscosity 3200 cP. A cotton fabric was printed with a textile printing paste containing the above composition, treated at 140° for 10 min, and washed to show no damages on the printed parts.

IC ICM C08L033-14
ICS C08G073-00; C08L101-02; D06M015-31

CC 40-9 (Textiles and Fibers)
Section cross-reference(s): 42

ST oxazoline carboxyl epoxy contg acrylic size; flexibility fiber size aq acrylic resin; self crosslinkable acrylic resin flexible coating; solvent heat water resistant acrylic compn

IT Binders
Fabric finishing
Nonwoven fabrics
Sizes (agents)
Textile printing
(aqueous acrylic resin compns. with excellent flexibility and water, heat, and solvent resistance)

IT 214358-21-1P 214358-23-3P 214358-25-5P
214358-27-7P
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(aqueous acrylic resin compns. with excellent flexibility and water, heat, and solvent resistance)

IT 214358-21-1P 214358-23-3P 214358-25-5P
214358-27-7P
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(aqueous acrylic resin compns. with excellent flexibility and water, heat, and solvent resistance)

RN 214358-21-1 CAPLUS

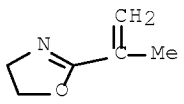
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, 4,5-dihydro-2-(1-methylethyl)oxazole, ethyl 2-propenoate, methyl 2-methyl-2-propenoate, oxiranylmethyl 2-methyl-2-propenoate, 2-propenenitrile and 2-propenoic acid, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 214358-20-0
CMF (C7 H12 O2 . C7 H10 O3 . C6 H9 N O . C5 H8 O2 . C5 H8 O2 . C4 H6 O2 . C3 H4 O2 . C3 H3 N)x
CCI PMS

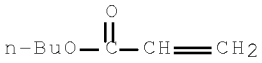
CM 2

CRN 10471-78-0
CMF C6 H9 N O



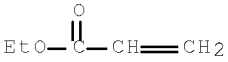
CM 3

CRN 141-32-2
CMF C7 H12 O2



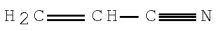
CM 4

CRN 140-88-5
CMF C5 H8 O2



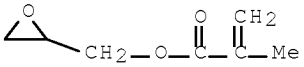
CM 5

CRN 107-13-1
CMF C3 H3 N



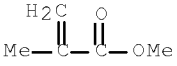
CM 6

CRN 106-91-2
CMF C7 H10 O3



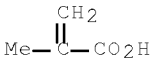
CM 7

CRN 80-62-6
CMF C5 H8 O2



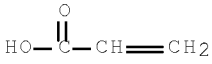
CM 8

CRN 79-41-4
CMF C4 H6 O2



CM 9

CRN 79-10-7
CMF C3 H4 O2



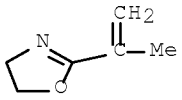
RN 214358-23-3 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, 4,5-dihydro-2-(1-methylethyl)oxazole, ethyl 2-propenoate, methyl 2-methyl-2-propenoate, oxiranylmethyl 2-methyl-2-propenoate and 2-propenoic acid, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 214358-22-2
CMF (C7 H12 O2 . C7 H10 O3 . C6 H9 N O . C5 H8 O2 . C5 H8 O2 . C4 H6 O2 . C3 H4 O2)x
CCI PMS

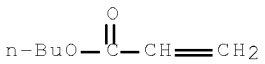
CM 2

CRN 10471-78-0
CMF C6 H9 N O



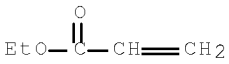
CM 3

CRN 141-32-2
CMF C7 H12 O2



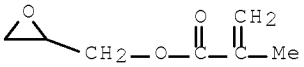
CM 4

CRN 140-88-5
CMF C5 H8 O2



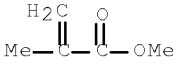
CM 5

CRN 106-91-2
CMF C7 H10 O3



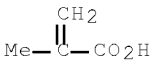
CM 6

CRN 80-62-6
CMF C5 H8 O2



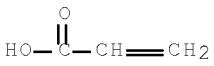
CM 7

CRN 79-41-4
CMF C4 H6 O2



CM 8

CRN 79-10-7
CMF C3 H4 O2



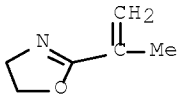
RN 214358-25-5 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, 4,5-dihydro-2-(1-methylethyl)oxazole, 2-ethylhexyl 2-propenoate, ethyl 2-propenoate, methyl 2-methyl-2-propenoate and oxiranylmethyl 2-methyl-2-propenoate, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 214358-24-4
CMF (C11 H20 O2 . C7 H12 O2 . C7 H10 O3 . C6 H9 N O . C5 H8 O2 . C5 H8 O2 . C4 H6 O2)x
CCI PMS

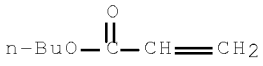
CM 2

CRN 10471-78-0
CMF C6 H9 N O



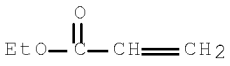
CM 3

CRN 141-32-2
CMF C7 H12 O2



CM 4

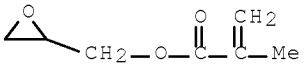
CRN 140-88-5
CMF C5 H8 O2



CM 5

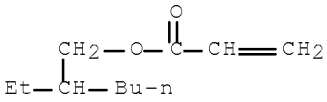
CRN 106-91-2

CMF C7 H10 O3



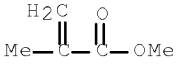
CM 6

CRN 103-11-7
CMF C11 H20 O2



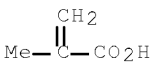
CM 7

CRN 80-62-6
CMF C5 H8 O2



CM 8

CRN 79-41-4
CMF C4 H6 O2



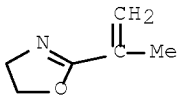
RN 214358-27-7 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, 4,5-dihydro-2-(1-methylethyl)oxazole, ethenylbenzene, ethyl 2-propenoate, methyl 2-methyl-2-propenoate, oxiranylmethyl 2-methyl-2-propenoate and 2-propenoic acid, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 214358-26-6
CMF (C8 H8 . C7 H12 O2 . C7 H10 O3 . C6 H9 N O . C5 H8 O2 . C5 H8 O2 . C4 H6 O2 . C3 H4 O2)x
CCI PMS

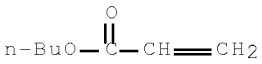
CM 2

CRN 10471-78-0
CMF C6 H9 N O



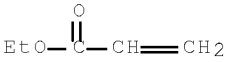
CM 3

CRN 141-32-2
CMF C7 H12 O2



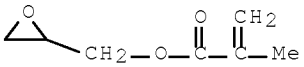
CM 4

CRN 140-88-5
CMF C5 H8 O2



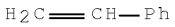
CM 5

CRN 106-91-2
CMF C7 H10 O3



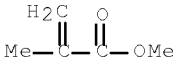
CM 6

CRN 100-42-5
CMF C8 H8



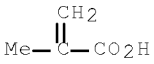
CM 7

CRN 80-62-6
CMF C5 H8 O2



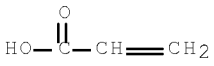
CM 8

CRN 79-41-4
CMF C4 H6 O2



CM 9

CRN 79-10-7
CMF C3 H4 O2



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L95 ANSWER 32 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1997:794056 CAPLUS Full-text
DOCUMENT NUMBER: 128:108413
ORIGINAL REFERENCE NO.: 128:21129a,21132a
TITLE: Electrophotographic toner using binder comprising carboxy-substituted vinyl resin and glycidyl-substituted resin as hardener
INVENTOR(S): Okada, Yasuo; Sakata, Kazuya; Hata, Masaaki
PATENT ASSIGNEE(S): Mitsui Toatsu Chemicals, Inc., Japan; Mitsui Chemicals, Inc.
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09319140	A	19971212	JP 1996-131648	19960527 <--
JP 3532033	B2	20040531		

PRIORITY APPLN. INFO.: JP 1996-131648 19960527 <--

AB The toner consists of at least a colorant and the following binder resins: (A) a glycidyl-containing vinyl resin with weight average mol. weight of 10,000-100,000 as a crosslinking agent and a COOH-containing vinyl resin with acid value of 1-30 mg KOH/g and glass transition temperature Tg of 40-70°. The toner is applicable to high speed developer and shows improved reproduction quality, anti-offset property, and prevention of blocking and grinding.

IC ICM G03G009-087
ICS G03G009-08

CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 38

IT Binders
Crosslinking agents
Electrophotographic toners
(electrophotog. toner for high speed developer using binder comprising carboxy-substituted resin and glycidyl-substituted resin hardener)

IT 38637-59-1P, Butyl acrylate-glycidyl methacrylate-methacrylic acid-styrene copolymer
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(binder; electrophotog. toner for high speed developer using binder comprising carboxy-substituted resin and glycidyl-substituted resin hardener)

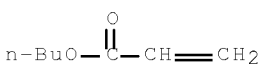
IT 38637-59-1P, Butyl acrylate-glycidyl methacrylate-methacrylic acid-styrene copolymer
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(binder; electrophotog. toner for high speed developer using binder comprising carboxy-substituted resin and glycidyl-substituted resin hardener)

RN 38637-59-1 CAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene and 2-oxiranylmethyl 2-methyl-2-propenoate (CA INDEX NAME)

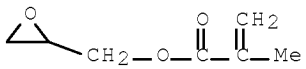
CM 1

CRN 141-32-2
CMF C7 H12 O2



CM 2

CRN 106-91-2
CMF C7 H10 O3

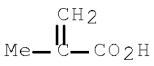


CM 3

CRN 100-42-5
CMF C8 H8

CM 4

CRN 79-41-4
CMF C4 H6 O2



L95 ANSWER 33 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1997:386591 CAPLUS Full-text
DOCUMENT NUMBER: 127:96486
ORIGINAL REFERENCE NO.: 127:18573a,18576a
TITLE: Preparation of rapid-curing low-temperature self-crosslinking binder for pigment printing
AUTHOR(S): Li, Runsong; Chen, Jinxi; Liu, Hanzhen; Zhao, Zhaojun
CORPORATE SOURCE: Dep. Chem., Huazhong Univ. Sci. Technol., Wuhan, 430074, Peop. Rep. China
SOURCE: Huazhong Ligong Daxue Xuebao (1996), 24(Suppl. 2), 134-136
CODEN: HLDXE6; ISSN: 1000-8616
PUBLISHER: Huazhong Ligong Daxue Xuebao
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
AB A rapid-curing low-temperature acrylate self-crosslinking binder HS-II was manufactured from Bu acrylate, Et acrylate, styrene, Me methacrylate, glycidyl methacrylate, 2-aminoethyl acrylate, N-butoxymethyl methacrylamide, N-hydroxy Me acrylamide, methacrylic acid by core shell polymerization The HS-II blinder is suitable for printing cotton and synthetic fiber at low temps.
CC 40-6 (Textiles and Fibers)
IT Crosslinking
(autocrosslinking; preparation of rapid-curing low-temperature self-crosslinking binder for pigment printing)
IT Polymerization
(emulsion, core-shell; preparation of rapid-curing low-temperature self-crosslinking binder for pigment printing)
IT Binders
Textile printing

(preparation of rapid-curing low-temperature self-crosslinking binder for pigment printing)

IT 192138-56-0P, 2-Aminoethyl acrylate-N-butoxymethyl methacrylamide-butyl acrylate-ethyl acrylate-glycidyl methacrylate-N-hydroxymethyl acrylamide-methacrylic acid-methyl methacrylate-styrene copolymer
RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(emulsion, HS-II; preparation of rapid-curing low-temperature self-crosslinking binder for pigment printing)

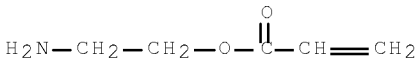
IT 192138-56-0P, 2-Aminoethyl acrylate-N-butoxymethyl methacrylamide-butyl acrylate-ethyl acrylate-glycidyl methacrylate-N-hydroxymethyl acrylamide-methacrylic acid-methyl methacrylate-styrene copolymer
RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(emulsion, HS-II; preparation of rapid-curing low-temperature self-crosslinking binder for pigment printing)

RN 192138-56-0 CAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 2-aminoethyl 2-propenoate, N-(butoxymethyl)-2-methyl-2-propenamide, butyl 2-propenoate, ethenylbenzene, ethyl 2-propenoate, N-(hydroxymethyl)-2-propenamide, methyl 2-methyl-2-propenoate and oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

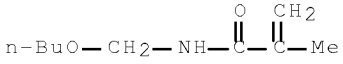
CM 1

CRN 7659-38-3
CMF C5 H9 N O2



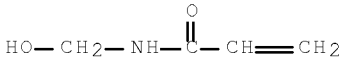
CM 2

CRN 5153-77-5
CMF C9 H17 N O2



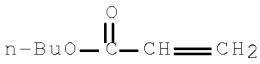
CM 3

CRN 924-42-5
CMF C4 H7 N O2



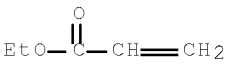
CM 4

CRN 141-32-2
CMF C7 H12 O2



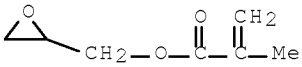
CM 5

CRN 140-88-5
CMF C5 H8 O2



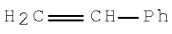
CM 6

CRN 106-91-2
CMF C7 H10 O3



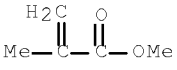
CM 7

CRN 100-42-5
CMF C8 H8



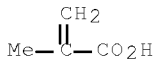
CM 8

CRN 80-62-6
CMF C5 H8 O2



CM 9

CRN 79-41-4
CMF C4 H6 O2



L95 ANSWER 34 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1996:35300 CAPLUS Full-text
DOCUMENT NUMBER: 124:89826
ORIGINAL REFERENCE NO.: 124:16827a,16830a
TITLE: Water-based materials for conditioning underlayers and finishing of building exterior walls
INVENTOR(S): Ikeuchi, Tadahiko; Asada, Yoshibumi
PATENT ASSIGNEE(S): S K Kaken Kk, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07278463	A	19951024	JP 1994-100740	19940413 <--
JP 3041189	B2	20000515		
PRIORITY APPLN. INFO.:			JP 1994-100740	19940413 <--

AB Title materials contain inorg. powders and emulsions of (1) triple layers, i.e., (A) epoxy-containing polymer layers, (B) copolymers inactive to epoxy or carboxyl, and (C) carboxyl- and amide-substituted polymer layers, or of (2) multilayer structures of A (as center)-C double layers associated with (a) B and C on A or with (b) C on A at pigment volume concentration (V) 40-70%. Building exterior walls are coated with the compns. and overcoated with (1') silicone-type water-based resin enamels or with (2') single-layer elastic finishing materials. Thus, 30.00 parts emulsion comprising 23.33:54.43:0.50 styrene (I)-Bu acrylate (II)-glycidyl methacrylate copolymer inner layer and 5.83:13.61:0.30:2.00 I-II-Me methacrylate-acrylamide copolymer outer layer was mixed with TiO2 5.00, heavy CaCO3 23.79, and other additives to give a composition (V 40%), which was coated on a slate plate to give a test piece showing good peeling and cracking resistance.

IC ICM C09D005-00
ICS C09D005-00; B05D007-24; C08G059-40; C09D151-00; C09D163-00; E04F013-02

CC 38-3 (Plastics Fabrication and Uses)
Section cross-reference(s): 42

IT Siloxanes and Silicones, preparation
RL: IMF (Industrial manufacture); MSC (Miscellaneous); PREP (Preparation)
(crosslinkable, top coating; water-based undercoatings including multilayer emulsions and inorg. powder for building exterior walls)

IT 172887-72-8P, Cyclohexyl methacrylate-2-ethylhexyl acrylate-γ-methacryloyloxypropyltrimethoxysilane copolymer

RL: IMF (Industrial manufacture); MSC (Miscellaneous); PREP (Preparation)
(crosslinkable, top coating; water-based undercoatings including multilayer emulsions and inorg. powder for building exterior walls)

IT 26428-43-3P, Butyl acrylate-glycidyl methacrylate-styrene copolymer 34871-68-6P, Acrylamide-butyl acrylate-methyl methacrylate-styrene copolymer
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(emulsions; water-based undercoatings including multilayer emulsions and inorg. powder for building exterior walls)

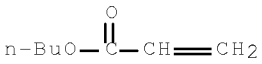
IT 26428-43-3P, Butyl acrylate-glycidyl methacrylate-styrene copolymer
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(emulsions; water-based undercoatings including multilayer emulsions and inorg. powder for building exterior walls)

RN 26428-43-3 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-oxiranylmethyl ester, polymer with butyl 2-propenoate and ethenylbenzene (CA INDEX NAME)

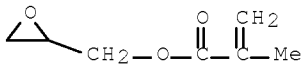
CM 1

CRN 141-32-2
CMF C7 H12 O2



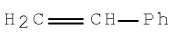
CM 2

CRN 106-91-2
CMF C7 H10 O3



CM 3

CRN 100-42-5
CMF C8 H8



L95 ANSWER 35 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1995:520479 CAPLUS Full-text

DOCUMENT NUMBER: 122:268117
ORIGINAL REFERENCE NO.: 122:48905a,48908a
TITLE: Heat-resistant binders for nonwovens for automobile interiors
INVENTOR(S): Arimitsu, Masaru; Inoe, Masahiro
PATENT ASSIGNEE(S): Mitsui Toatsu Chemicals, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07026461	A	19950127	JP 1993-164392	19930702 <--

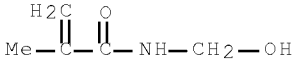
PRIORITY APPLN. INFO.: JP 1993-164392 19930702 <--

AB The binders comprise polymer emulsions (A) prepared by copolymg. 100 parts (solids) monomer pseudo emulsions with 5-100 parts monomers comprising 50-100% (meth)acrylamide, and optionally contain 3-30 parts film-forming agents per 100 parts (solids) A emulsion. A nonwoven fabric was dipped in a solution containing 100 parts of 30% (solids) acrylamide-2-ethylhexyl acrylate-2-hydroxyethyl methacrylate-methacrylamide-methacrylic acid-N-methylolmethacrylamide-styrene copolymer emulsion and 10 parts H2O, squeezed, and dried to give a nonwoven fabric with tensile strength 30 kg/5 cm (room temperature) and 26 kg/5 cm (190°).

IC ICM D04H001-58
ICS C08F002-22; C08F020-56; C08L033-26; D06M015-285
CC 40-10 (Textiles and Fibers)
IT Binding materials
((meth)acrylamide copolymers; heat-resistant binders for nonwovens for automobile interiors)
IT 123467-89-0P 137819-09-1P 137819-11-5P 162706-35-6P 162706-36-7P
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(heat-resistant binders for nonwovens for automobile interiors)
IT 162706-35-6P 162706-36-7P
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(heat-resistant binders for nonwovens for automobile interiors)
RN 162706-35-6 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with ethenylbenzene, 2-ethylhexyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate, N-(hydroxymethyl)-2-methyl-2-propenamide and 2-propenamide (9CI) (CA INDEX NAME)

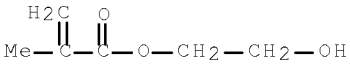
CM 1

CRN 923-02-4
CMF C5 H9 N O2



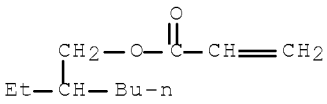
CM 2

CRN 868-77-9
CMF C6 H10 O3



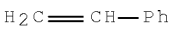
CM 3

CRN 103-11-7
CMF C11 H20 O2



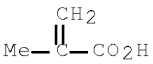
CM 4

CRN 100-42-5
CMF C8 H8



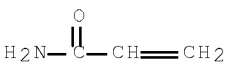
CM 5

CRN 79-41-4
CMF C4 H6 O2



CM 6

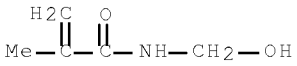
CRN 79-06-1
CMF C3 H5 N O



RN 162706-36-7 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with ethenylbenzene, 2-ethylhexyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate, N-(hydroxymethyl)-2-methyl-2-propenamide, 2-methyl-2-propenamide and 2-propenamide (9CI) (CA INDEX NAME)

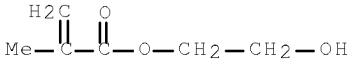
CM 1

CRN 923-02-4
CMF C5 H9 N O2



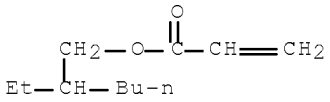
CM 2

CRN 868-77-9
CMF C6 H10 O3



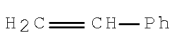
CM 3

CRN 103-11-7
CMF C11 H20 O2



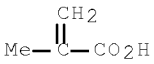
CM 4

CRN 100-42-5
CMF C8 H8



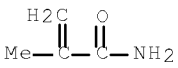
CM 5

CRN 79-41-4
CMF C4 H6 O2



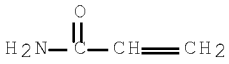
CM 6

CRN 79-39-0
CMF C4 H7 N O



CM 7

CRN 79-06-1
CMF C3 H5 N O



L95 ANSWER 36 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1993:410397 CAPLUS Full-text
DOCUMENT NUMBER: 119:10397
ORIGINAL REFERENCE NO.: 119:2073a
TITLE: Aqueous binder for textile material
INVENTOR(S): Fink, Herbert; Suefke, Thomas; Kniese, Heiner
PATENT ASSIGNEE(S): Rohm G.m.b.H., Germany
SOURCE: Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 527411	A1	19930217	EP 1992-113160	19920801 <--
EP 527411	B1	19950222		

R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE
PRIORITY APPLN. INFO.: DE 1991-9110054 U 19910814 <--

AB An aqueous binder for textiles contains as aqueous dispersion of a film-forming self-crosslinking emulsion polymer (A) and a polymer (B) soluble in the aqueous phase of the binder composition which is composed of 10-100% acrylamide and/or methacrylamide. The weight ratio of A to B is 95:5 to 70:30 wherein A contains 1-15% of units of N-methylolacrylamide and/or methacrylamide. This combination provides good tensile strength, especially at higher temps. with low formaldehyde emission for binder-impregnated textiles.

A binder composition comprising 90% Bu acrylate-methacrylamide-methacrylic acid-Me methacrylate-N-methylolacrylamide copolymer and 10% acrylamide-2-hydroxyethyl methacrylate-methacrylamide copolymer (60:10:30) was used to impregnate a heat-reinforced polyester fiber nonwoven to give a web with tensile strength at 150° 231 N/5cm and HCHO emission 750 ppm.

IC ICM D06M015-285
ICS D06M015-29

CC 40-5 (Textiles and Fibers)
Section cross-reference(s): 38

IT Binding materials
(for textiles, aqueous acrylate polymer-acrylamide polymer mixts., for improved strength and reduced formaldehyde emission)

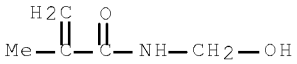
IT 27235-04-7, Butyl acrylate-methyl methacrylate-N-methylolacrylamide copolymer 28501-56-6, Acrylamide-methacrylamide copolymer 28935-10-6 52640-90-1 57981-97-2 135090-32-3 148230-94-8
RL: USES (Uses)
(aqueous binder composition containing, for reinforcing polyester nonwoven webs,
with improved strength and reduced formaldehyde emissions)

IT 28935-10-6 52640-90-1 57981-97-2 148230-94-8
RL: USES (Uses)
(aqueous binder composition containing, for reinforcing polyester nonwoven webs,
with improved strength and reduced formaldehyde emissions)

RN 28935-10-6 CAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, N-(hydroxymethyl)-2-methyl-2-propenamide and 2-methyl-2-propenamide (CA INDEX NAME)

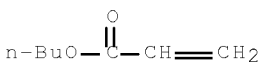
CM 1

CRN 923-02-4
CMF C5 H9 N O2



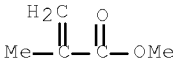
CM 2

CRN 141-32-2
CMF C7 H12 O2



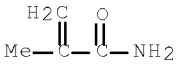
CM 3

CRN 80-62-6
CMF C5 H8 O2



CM 4

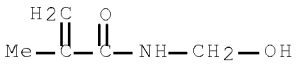
CRN 79-39-0
CMF C4 H7 N O



RN 52640-90-1 CAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with ethyl 2-propenoate and N-(hydroxymethyl)-2-methyl-2-propenamide (CA INDEX NAME)

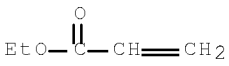
CM 1

CRN 923-02-4
CMF C5 H9 N O2



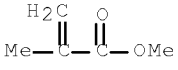
CM 2

CRN 140-88-5
CMF C5 H8 O2



CM 3

CRN 80-62-6
CMF C5 H8 O2

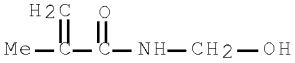


RN 57981-97-2 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate,

N-(2-hydroxymethyl)-2-methyl-2-propenamide, methyl 2-methyl-2-propenoate and 2-methyl-2-propenamide (9CI) (CA INDEX NAME)

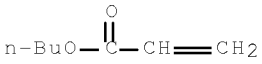
CM 1

CRN 923-02-4
CMF C5 H9 N O2



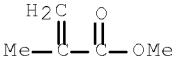
CM 2

CRN 141-32-2
CMF C7 H12 O2



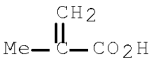
CM 3

CRN 80-62-6
CMF C5 H8 O2



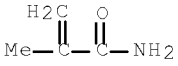
CM 4

CRN 79-41-4
CMF C4 H6 O2



CM 5

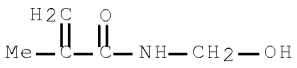
CRN 79-39-0
CMF C4 H7 N O



RN 148230-94-8 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate, N-(hydroxymethyl)-2-methyl-2-propenamide, methyl 2-methyl-2-propenoate and 2-methyl-2-propenamide (9CI) (CA INDEX NAME)

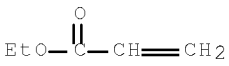
CM 1

CRN 923-02-4
CMF C5 H9 N O2



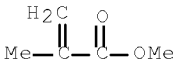
CM 2

CRN 140-88-5
CMF C5 H8 O2



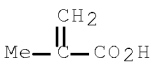
CM 3

CRN 80-62-6
CMF C5 H8 O2



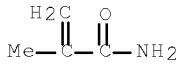
CM 4

CRN 79-41-4
CMF C4 H6 O2



CM 5

CRN 79-39-0
CMF C4 H7 N O



L95 ANSWER 37 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1991:633868 CAPLUS Full-text
DOCUMENT NUMBER: 115:233868
ORIGINAL REFERENCE NO.: 115:39873a,39876a
TITLE: Aqueous polymer dispersions useful in bitumen-based roofing sheets
INVENTOR(S): Matejcek, Franz; Angel, Maximilian; Schuhmacher, Rudolf
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: Eur. Pat. Appl., 20 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 442370	A2	19910821	EP 1991-101650	19910207 <--
EP 442370	A3	19921028		
EP 442370	B1	19960626		
R: DE, GB, IT, NL, SE				
DE 4004915	A1	19910822	DE 1990-4004915	19900216 <--
CA 2036071	A1	19910817	CA 1991-2036071	19910211 <--
US 5270376	A	19931214	US 1992-928768	19920817 <--
US 5300359	A	19940405	US 1993-99544	19930730 <--

PRIORITY APPLN. INFO.:
DE 1990-4004915 A 19900216 <--
US 1991-655826 B1 19910215 <--
US 1992-928768 A3 19920817 <--
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
AB Dispersions for the title use are prepared by adding 5-60 mol% (based on CO2H groups) oxide, hydroxide, or carbonate of Mg, Ca, or Zn to 25-60% solids aqueous emulsions (average particle size 20-400 nm) of polymers from C3-5 unsatd. mono- or dicarboxylic acids and/or anhydrides 3-55 and comonomers 97-45% at temps. between the glass temperature of the polymer and 100°. A 49.4% emulsion (average particle size 170.4 nm) was prepared from Bu acrylate 1170, methacrylic acid 210, acrylonitrile 105, and acrylamidoglycolic acid 15 g and mixed (100 g) with 4.7 g (44 equiv%) ZnO paste at 25°. A nonwoven 70:30 cellulose pulp-rayon fleece (basis weight 35 g/m2) impregnated with 50% (based on solids) dispersion containing 95 parts above-described Zn-containing polymer dispersion and 5 parts bisphenol A-HCHO resol resin and dried at 170° had wet tear strength 15 N/5 cm; vs. 0 without the binder.
IC ICM C08J003-03
ICS C08L057-00; D06N005-00
CC 37-6 (Plastics Manufacture and Processing)
Section cross-reference(s): 40, 58
IT Binding materials
(water-thinned, carboxylated acrylic polymer metal salts, for nonwoven fleeces for high wet strength)

IT 62180-77-2P, Butyl acrylate-methacrylic acid-methyl methacrylate-styrene copolymer zinc salt 87706-25-0P, Butyl acrylate-methacrylic acid copolymer zinc salt 137295-32-0P 137295-33-1P, Acrylonitrile-butyl acrylate-methacrylic acid copolymer zinc salt 137295-34-2P, Acrylonitrile-butyl acrylate-methacrylic acid copolymer calcium salt 137295-35-3P, Acrylonitrile-butyl acrylate-methacrylic acid copolymer magnesium salt 137295-37-5P, Acrylonitrile-butyl acrylate-methacrylic acid-methacrylamide copolymer zinc salt 137295-38-6P, Acrylic acid-acrylonitrile-butyl acrylate-methyl methacrylate copolymer zinc salt 137295-39-7P, Acrylonitrile-butyl acrylate-methacrylic acid-vinyl acetate copolymer zinc salt 137295-41-1P, Acrylamidoglycolic acid-acrylonitrile-butyl acrylate-methacrylic acid copolymer zinc salt 137295-43-3P, Acrylonitrile-butyl acrylate-N-(hydroxymethyl)methacrylamide-methacrylic acid copolymer zinc salt
RL: PREP (Preparation)
(manufacture of, for aqueous binders, for nonwoven fleeces with high wet strength)

IT 137295-43-3P, Acrylonitrile-butyl acrylate-N-(hydroxymethyl)methacrylamide-methacrylic acid copolymer zinc salt
RL: PREP (Preparation)
(manufacture of, for aqueous binders, for nonwoven fleeces with high wet strength)

RN 137295-43-3 CAPLUS

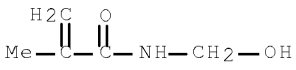
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, N-(hydroxymethyl)-2-methyl-2-propenamide and 2-propenenitrile, zinc salt (9CI) (CA INDEX NAME)

CM 1

CRN 137295-42-2
CMF (C7 H12 O2 . C5 H9 N O2 . C4 H6 O2 . C3 H3 N)x
CCI PMS

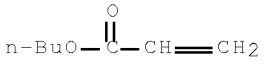
CM 2

CRN 923-02-4
CMF C5 H9 N O2



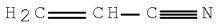
CM 3

CRN 141-32-2
CMF C7 H12 O2



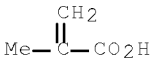
CM 4

CRN 107-13-1
CMF C3 H3 N



CM 5

CRN 79-41-4
CMF C4 H6 O2



OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

L95 ANSWER 38 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1991:585751 CAPLUS Full-text
DOCUMENT NUMBER: 115:185751
ORIGINAL REFERENCE NO.: 115:31719a,31722a
TITLE: Aqueous polymer compositions as binders for leather
INVENTOR(S): Fischer, Karl; Weyland, Peter
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: Ger. Offen., 6 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4000976	A1	19910718	DE 1990-4000976	19900116 <--
EP 437742	A1	19910724	EP 1990-124069	19901213 <--
EP 437742	B1	19960228		
R: AT, BE, DE, ES, FR, GB, IT, NL				
AT 134678	T	19960315	AT 1990-124069	19901213 <--
ES 2083418	T3	19960416	ES 1990-124069	19901213 <--
US 5159000	A	19921027	US 1990-630194	19901219 <--
JP 04249566	A	19920904	JP 1990-406521	19901226 <--
CA 2034181	A1	19910717	CA 1991-2034181	19910115 <--
PRIORITY APPLN. INFO.:			DE 1990-4000976 A	19900116 <--

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

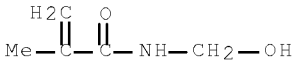
AB The title compns., giving leather with good wet and dry abrasion resistance, contain 5-60 parts mixture of 50-100% polymer from alkyl methacrylates 20-80, unsatd. carboxylic acids 0.5-10, and specified acrylic compds. 10-75%, 30-98% polymer from alkyl acrylates 30-98, unsatd. carboxylic acids 1-8, and specified comonomers 1-65%, and 0-50% hydrophilic polyurethane; 0.1-14% external plasticizer; and 0-20% natural and/or synthetic wax. Mixing 770 g 40% aqueous dispersion of 8.5:35:1.5:25:30 acrylic acid-Bu acrylate-N-(hydroxymethyl)acrylamide-MMA-styrene copolymer, 20 g tris(butoxyethyl)phosphate, 160 g 50% aqueous 2:13:70:2:13 acrylic acid-

acrylonitrile-Bu acrylate-methacrylamide-styrene copolymer, and 50 g 35% montan wax emulsion gave a binder composition Cattle leather was primed with a com. preparation, sprayed twice with the above composition (diluted 1:1 with H2O, dry pickup 25 g/m2), dried at 70°, and pressed at 110° to give leather with wet abrasion resistance (IUF-450) 700 revolutions.

IC ICM C08L033-10
ICS C08L075-04; C08J003-05; C08J003-18; C08K005-521; C08K005-523; C14C009-02
ICA C08K005-10; C08K005-11; C08K005-12
ICI C08L033-10, C08L091-06, C08L091-08
CC 45-2 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
Section cross-reference(s): 38
IT Binding materials
(acrylic polymers, for abrasion-resistant water borne finishes for leather)
IT 25135-39-1, Acrylic acid-ethyl acrylate-methyl methacrylate copolymer 54053-24-6, Acrylic acid-acrylonitrile-butyl acrylate-methacrylamide-styrene copolymer 90077-57-9, Acrylic acid-butyl acrylate-N-(hydroxymethyl)methacrylamide-methyl methacrylate-styrene copolymer
RL: USES (Uses)
(binders, for aqueous finishes for abrasion-resistant leather)
IT 90077-57-9, Acrylic acid-butyl acrylate-N-(hydroxymethyl)methacrylamide-methyl methacrylate-styrene copolymer
RL: USES (Uses)
(binders, for aqueous finishes for abrasion-resistant leather)
RN 90077-57-9 CAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, ethenylbenzene, N-(hydroxymethyl)-2-methyl-2-propenamide and 2-propenoic acid (9CI) (CA INDEX NAME)

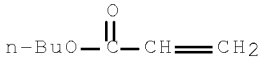
CM 1

CRN 923-02-4
CMF C5 H9 N O2



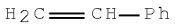
CM 2

CRN 141-32-2
CMF C7 H12 O2



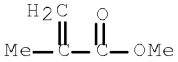
CM 3

CRN 100-42-5
CMF C8 H8



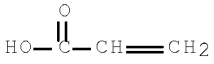
CM 4

CRN 80-62-6
CMF C5 H8 O2



CM 5

CRN 79-10-7
CMF C3 H4 O2



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L95 ANSWER 39 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1989:596706 CAPLUS Full-text
DOCUMENT NUMBER: 111:196706
ORIGINAL REFERENCE NO.: 111:32697a,32700a
TITLE: Binders for one-bath dyeing and finishing of textiles
INVENTOR(S): Penzel, Erich Dr; Schoepke, Holger; Bassing, Dieter
PATENT ASSIGNEE(S): BASF A.-G., Fed. Rep. Ger.
SOURCE: Ger. Offen., 5 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3838463	A1	19890601	DE 1988-3838463	19881112 <--
PRIORITY APPLN. INFO.:			DE 1987-3739541 A1	19871121 <--

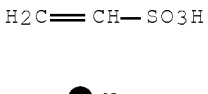
AB The title binders, having good sedimentation resistance in aqueous baths, comprise copolymers (min. film-forming temperature <0°; glass temperature -5° to -30°) of H2C:CCl2 5-30, C2-10 alkyl acrylates 60-90, α,β-unsatd. C3-5 mono- or dicarboxylic acids and/or amides 0.3-5, N-methylol(meth)acrylamide and/or ethers with C1-4 alcs. 2-5, and H2C:CHSO3Na 0-2%, the copolymers being prepared by emulsion polymerization with a disulfonate emulsifier. A copolymer (I; glass temperature -28°) was prepared from Bu acrylate 33.6, H2C:CCl2 3.91, acrylic acid 0.78, 50% aqueous acrylamide solution 0.78, 15%

aqueous N-methylolmethacrylamide solution 5.22, and 25% aqueous H2C:CHSO3Na solution 1.13 kg with 1.3 kg 45% aqueous di-Na C12 alkyldiphenyl ether disulfonate solution as the emulsifier. I was used in a textile dyeing bath containing an easy-care finishing composition based on dimethylolurea, exhibiting better sedimentation resistance than a similar copolymer prepared with Na lauryl sulfate as the emulsifier.

IC ICM C08F220-18
ICS D06P001-52; D06M015-263; D06M015-248; D06M015-29; D06M015-423
ICA C08F002-26
ICI C08F220-18, C08F214-08, C08F220-04, C08F222-02, C08F220-54, C08F220-58, C08F228-02, C08F218-08, C08F218-10
CC 40-9 (Textiles and Fibers)
IT Binding materials
(acrylic polymers, in aqueous dyeing-finishing baths for textiles)
IT 123502-45-4 123502-46-5 123502-47-6
123502-48-7 123502-49-8 123502-50-1
RL: USES (Uses)
(binders, dispersible, in aqueous dyeing-finishing baths for textiles)
IT 123502-45-4 123502-47-6 123502-48-7
123502-49-8
RL: USES (Uses)
(binders, dispersible, in aqueous dyeing-finishing baths for textiles)
RN 123502-45-4 CAPLUS
CN 2-Propenoic acid, polymer with butyl 2-propenoate, 1,1-dichloroethene, N-(hydroxymethyl)-2-methyl-2-propenamide, 2-propenamide and sodium ethenesulfonate (9CI) (CA INDEX NAME)

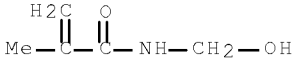
CM 1

CRN 3039-83-6
CMF C2 H4 O3 S . Na



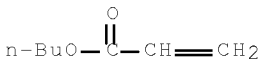
CM 2

CRN 923-02-4
CMF C5 H9 N O2



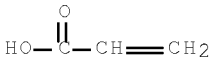
CM 3

CRN 141-32-2
CMF C7 H12 O2



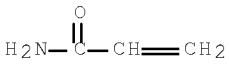
CM 4

CRN 79-10-7
CMF C3 H4 O2



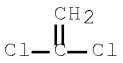
CM 5

CRN 79-06-1
CMF C3 H5 N O



CM 6

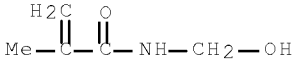
CRN 75-35-4
CMF C2 H2 Cl2



RN 123502-47-6 CAPLUS
CN 2-Propenoic acid, polymer with 1,1-dichloroethene, 2-ethylhexyl 2-propenoate, N-(hydroxymethyl)-2-methyl-2-propenamide and 2-methyl-2-propenamide (9CI) (CA INDEX NAME)

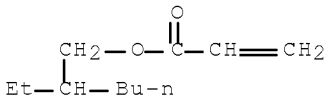
CM 1

CRN 923-02-4
CMF C5 H9 N O2



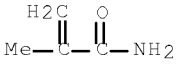
CM 2

CRN 103-11-7
CMF C11 H20 O2



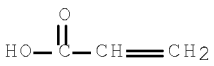
CM 3

CRN 79-39-0
CMF C4 H7 N O



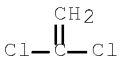
CM 4

CRN 79-10-7
CMF C3 H4 O2



CM 5

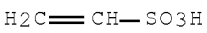
CRN 75-35-4
CMF C2 H2 Cl2



RN 123502-48-7 CAPLUS
CN 2-Propenoic acid, polymer with butyl 2-propenoate, 1,1-dichloroethene, 1,1-dimethylethyl 2-propenoate, N-(hydroxymethyl)-2-methyl-2-propenamide, 2-propenamide and sodium ethenesulfonate (9CI) (CA INDEX NAME)

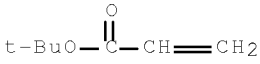
CM 1

CRN 3039-83-6
CMF C2 H4 O3 S . Na



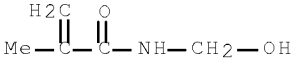
CM 2

CRN 1663-39-4
CMF C7 H12 O2



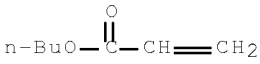
CM 3

CRN 923-02-4
CMF C5 H9 N O2



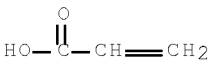
CM 4

CRN 141-32-2
CMF C7 H12 O2



CM 5

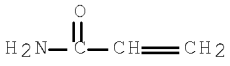
CRN 79-10-7
CMF C3 H4 O2



CM 6

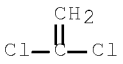
CRN 79-06-1

CMF C3 H5 N O



CM 7

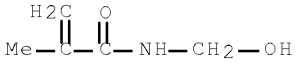
CRN 75-35-4
CMF C2 H2 Cl2



RN 123502-49-8 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, 1,1-dichloroethene, ethyl 2-propenoate, N-(hydroxymethyl)-2-methyl-2-propenamide and 2-propenamide (9CI) (CA INDEX NAME)

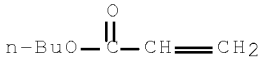
CM 1

CRN 923-02-4
CMF C5 H9 N O2



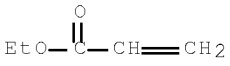
CM 2

CRN 141-32-2
CMF C7 H12 O2



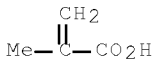
CM 3

CRN 140-88-5
CMF C5 H8 O2



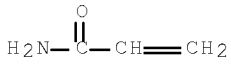
CM 4

CRN 79-41-4
CMF C4 H6 O2



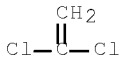
CM 5

CRN 79-06-1
CMF C3 H5 N O



CM 6

CRN 75-35-4
CMF C2 H2 Cl2



L95 ANSWER 40 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1988:512037 CAPLUS Full-text
DOCUMENT NUMBER: 109:112037
ORIGINAL REFERENCE NO.: 109:18667a,18670a
TITLE: Nonwoven fabric with an acrylate interpolymer binder and a process of making the nonwoven fabric
INVENTOR(S): Stanislawczyk, Vic
PATENT ASSIGNEE(S): Goodrich, B. F., Co., USA
SOURCE: Eur. Pat. Appl., 35 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 264869	A2	19880427	EP 1987-115223	19871017 <--
EP 264869	A3	19900214		
EP 264869	B1	19940713		

R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE

CA 1332901	C	19941108	CA 1987-548878	19871008 <--
AU 8779596	A	19880421	AU 1987-79596	19871013 <--
AU 612600	B2	19910718		
ES 2059341	T3	19941116	ES 1987-115223	19871017 <--
JP 63165563	A	19880708	JP 1987-261898	19871019 <--
JP 2559427	B2	19961204		
CN 87107050	A	19880629	CN 1987-107050	19871020 <--
CN 1012086	B	19910320		

PRIORITY APPLN. INFO.: US 1986-921165 A 19861020 <--

AB A latex of a copolymer prepared from 1-20% unsatd. C4-10 dicarboxylic acid and 70-99% copolymerizable monomers comprising mainly acrylates and having glass temperature -20 to -60°, hysteresis loss ≤20%, raw polymer strength ≥300 psi, and elongation ≥350% is used as a binder for nonwoven fabrics, giving bonded fabrics having good wet and dry strength, solvent resistance, flexibility, softness, and resiliency. A latex of a copolymer prepared from itaconic acid 4.5, N-methylolacrylamide 1.0, and Bu acrylate 94.5 parts and having tensile strength 546 psi, elongation 553%, hysteresis loss 19.6%, and glass temperature -44° was used as a binder.

IC ICM D04H001-64

CC 40-10 (Textiles and Fibers)
Section cross-reference(s): 37

ST binder polymer nonwoven fabric; acrylate polymer binder fabric; carboxy polymer binder fabric; itaconic polymer binder fabric; polyester fabric binder polymer; paper binder carboxy polymer; crosslinking polymer binder fabric; softness binder polymer fabric; methylolacrylamide binder fabric; acrylamide methylol binder fabric

IT Crosslinking
(of polymeric binder on nonwoven fabric, for durability and softness)

IT Binding materials
(polymers, nonwoven fabrics containing, durable, soft)

IT 53302-81-1 97700-99-7 115633-29-9
115633-30-2 115633-31-3 115633-32-4
116336-07-3 116336-08-4 116336-09-5 116336-11-9
RL: USES (Uses)
(binder, nonwoven fabric containing, durable, soft)

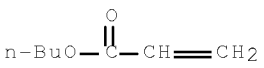
IT 53302-81-1 97700-99-7 115633-29-9
115633-30-2 115633-31-3 115633-32-4
116336-09-5 116336-11-9
RL: USES (Uses)
(binder, nonwoven fabric containing, durable, soft)

RN 53302-81-1 CAPLUS

CN Butanedioic acid, 2-methylene-, polymer with butyl 2-propenoate (CA INDEX NAME)

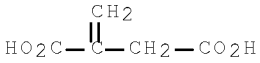
CM 1

CRN 141-32-2
CMF C7 H12 O2



CM 2

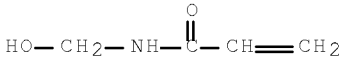
CRN 97-65-4
CMF C5 H6 O4



RN 97700-99-7 CAPLUS
CN Butanedioic acid, methylene-, polymer with butyl 2-propenoate and N-(hydroxymethyl)-2-propenamide (9CI) (CA INDEX NAME)

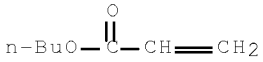
CM 1

CRN 924-42-5
CMF C4 H7 N O2



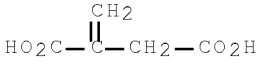
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

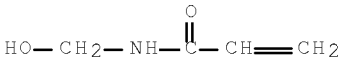
CRN 97-65-4
CMF C5 H6 O4



RN 115633-29-9 CAPLUS
CN 2-Butenedioic acid (2E)-, polymer with butyl 2-propenoate and N-(hydroxymethyl)-2-propenamide (9CI) (CA INDEX NAME)

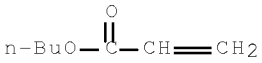
CM 1

CRN 924-42-5
CMF C4 H7 N O2



CM 2

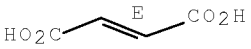
CRN 141-32-2
CMF C7 H12 O2



CM 3

CRN 110-17-8
CMF C4 H4 O4

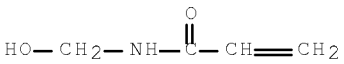
Double bond geometry as shown.



RN 115633-30-2 CAPLUS
CN 2-Butenedioic acid (2Z)-, polymer with butyl 2-propenoate and N-(hydroxymethyl)-2-propenamide (CA INDEX NAME)

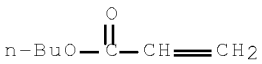
CM 1

CRN 924-42-5
CMF C4 H7 N O2



CM 2

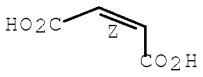
CRN 141-32-2
CMF C7 H12 O2



CM 3

CRN 110-16-7
CMF C4 H4 O4

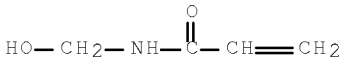
Double bond geometry as shown.



RN 115633-31-3 CAPLUS
CN 2-Butenedioic acid, 2-methyl-, (Z)-, polymer with butyl 2-propenoate and N-(hydroxymethyl)-2-propenamide (9CI) (CA INDEX NAME)

CM 1

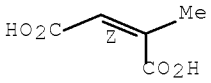
CRN 924-42-5
CMF C4 H7 N O2



CM 2

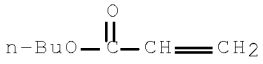
CRN 498-23-7
CMF C5 H6 O4

Double bond geometry as shown.



CM 3

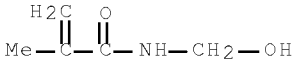
CRN 141-32-2
CMF C7 H12 O2



RN 115633-32-4 CAPLUS
CN Butanedioic acid, methylene-, polymer with butyl 2-propenoate and N-(hydroxymethyl)-2-methyl-2-propenamide (9CI) (CA INDEX NAME)

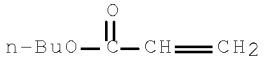
CM 1

CRN 923-02-4
CMF C5 H9 N O2



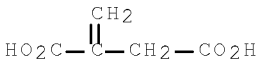
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

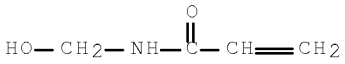
CRN 97-65-4
CMF C5 H6 O4



RN 116336-09-5 CAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with N-(hydroxymethyl)-2-propenamide and methylenebutanedioic acid (9CI) (CA INDEX NAME)

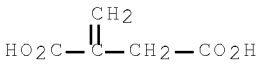
CM 1

CRN 924-42-5
CMF C4 H7 N O2



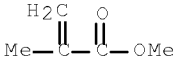
CM 2

CRN 97-65-4
CMF C5 H6 O4



CM 3

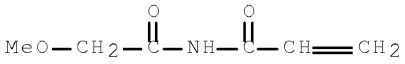
CRN 80-62-6
CMF C5 H8 O2



RN 116336-11-9 CAPLUS
CN Butanedioic acid, methylene-, polymer with butyl 2-propenoate and N-(methoxyacetyl)-2-propenamide (9CI) (CA INDEX NAME)

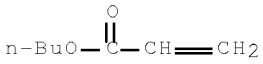
CM 1

CRN 116336-10-8
CMF C6 H9 N O3



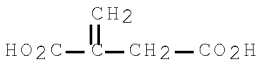
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

CRN 97-65-4
CMF C5 H6 O4



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L95 ANSWER 41 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1987:638549 CAPLUS Full-text
DOCUMENT NUMBER: 107:238549

ORIGINAL REFERENCE NO.: 107:38331a,38334a
TITLE: Binders for inorganic fibers
INVENTOR(S): Izumibayashi, Masuji; Sagara, Masanori; Arita, Yoshihiro
PATENT ASSIGNEE(S): Nippon Shokubai Kagaku Kogyo Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62170567	A	19870727	JP 1986-8157	19860120 <--
PRIORITY APPLN. INFO.:			JP 1986-8157	19860120 <--

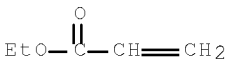
AB Water-resistant binders for inorg. fiber nonwovens are prepared by modifying polyamines and/or their derivs. with R1(OZ)nR (R1 = C4-28 hydrocarbon group; Z = C2-4 alkylene; R = epoxy or isocyanate-containing mol. group, halogen; n = 0-30) and epichlorohydrin and emulsion polymerizing monomers having functional groups reactable with the modified polyamines (A) over A as emulsifiers. Thus, 45 parts Epomine SP 012 was treated with 29.2 parts Softnaol 30 glycidyl ether for 2 h at 80° under N to give a product, which was treated with 97.2 parts epichlorohydrin for 3 h at 80° to give a modified polyamine (I). Then, 175.7 parts H2O and 4.8 parts aqueous 10% 2,2'-azobis(2-methylpropanediamine) were stirred at 55°, and an emulsion containing methacrylic acid 8, Me methacrylate 4, Et acrylate 148, aqueous 35.6% (nonvolatiles) I 34.5, and H2O 56.2 parts was added dropwise to the solution in 2 h at 55-60° held at 50-60°, and stirred and polymerized 1 h to give a water-borne polymer (II). A glass fiber web was prepared, immersed in aqueous 6% (nonvolatiles) II dispersion, squeezed to binder content 5% (solids), and dried to give a 100-g/m2 nonwoven web with tensile strength 4.3 kg/cm2 and 3.8 kg/cm2 (after immersion in H2O for 10 min at 20°), vs. 2.5 kg/cm2 and 1.0 kg/cm2, resp., using dodecyltrimethylammonium chloride instead of II.

IC ICM D04H001-58
ICS C08F002-24; D04H001-42
ICA D06M015-61
CC 40-10 (Textiles and Fibers)
ST water resistant binder glass nonwoven; inorg nonwoven binder acrylate polymer; polyamine crosslinked acrylate polymer binder
IT Binding materials
((meth)acrylic polymers crosslinked with polyamines modified with epoxy compds. and epichlorohydrin as, water-resistant, for inorg. fiber nonwoven webs)
IT Glass fibers, uses and miscellaneous
RL: USES (Uses)
(binders for, (meth)acrylic polymers crosslinked with polyamines modified with epoxy compds. and epichlorohydrin as, water-resistant)
IT 25133-97-5D, Ethyl acrylate-methacrylic acid-methyl methacrylate copolymer, polymers with polyamines modified with epichlorohydrin and epoxy compds. 30261-69-9D, Butyl acrylate-glycidyl methacrylate-methyl methacrylate copolymer, polymers with polyamines modified with epichlorohydrin and epoxy compds. 111804-03-6D, polymers with polyamines modified with epichlorohydrin and epoxy compds. 111804-04-7D, polymers with polyamines modified with epichlorohydrin and epoxy compds. 111804-05-8D, polymers with polyamines modified with epichlorohydrin and epoxy compds. 111804-06-9D, polymers with polyamines modified with epichlorohydrin and epoxy compds.
RL: USES (Uses)

(binders, water-resistant, for inorg. fiber nonwoven webs)
IT 25133-97-5D, Ethyl acrylate-methacrylic acid-methyl methacrylate copolymer, polymers with polyamines modified with epichlorohydrin and epoxy compds. 30261-69-9D, Butyl acrylate-glycidyl methacrylate-methyl methacrylate copolymer, polymers with polyamines modified with epichlorohydrin and epoxy compds. 111804-03-6D, polymers with polyamines modified with epichlorohydrin and epoxy compds. 111804-05-8D, polymers with polyamines modified with epichlorohydrin and epoxy compds. 111804-06-9D, polymers with polyamines modified with epichlorohydrin and epoxy compds.
RL: USES (Uses)
(binders, water-resistant, for inorg. fiber nonwoven webs)
RN 25133-97-5 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate and methyl 2-methyl-2-propenoate (CA INDEX NAME)

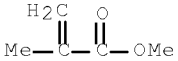
CM 1

CRN 140-88-5
CMF C5 H8 O2



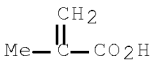
CM 2

CRN 80-62-6
CMF C5 H8 O2



CM 3

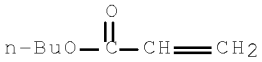
CRN 79-41-4
CMF C4 H6 O2



RN 30261-69-9 CAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate and 2-oxiranylmethyl 2-methyl-2-propenoate (CA INDEX NAME)

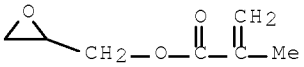
CM 1

CRN 141-32-2
CMF C7 H12 O2



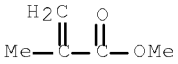
CM 2

CRN 106-91-2
CMF C7 H10 O3



CM 3

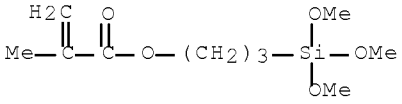
CRN 80-62-6
CMF C5 H8 O2



RN 111804-03-6 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester, polymer with butyl 2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

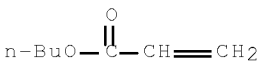
CM 1

CRN 2530-85-0
CMF C10 H20 O5 Si



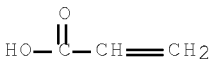
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

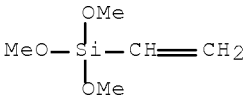
CRN 79-10-7
CMF C3 H4 O2



RN 111804-05-8 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with ethenyltrimethoxysilane and ethyl 2-propenoate (9CI) (CA INDEX NAME)

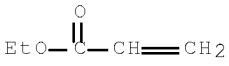
CM 1

CRN 2768-02-7
CMF C5 H12 O3 Si



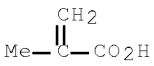
CM 2

CRN 140-88-5
CMF C5 H8 O2



CM 3

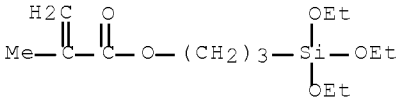
CRN 79-41-4
CMF C4 H6 O2



RN 111804-06-9 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate, methyl 2-methyl-2-propenoate and 3-(triethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

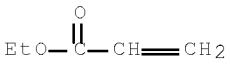
CM 1

CRN 21142-29-0
CMF C13 H26 O5 Si



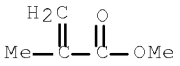
CM 2

CRN 140-88-5
CMF C5 H8 O2



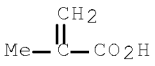
CM 3

CRN 80-62-6
CMF C5 H8 O2



CM 4

CRN 79-41-4
CMF C4 H6 O2



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L95 ANSWER 42 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1987:178063 CAPLUS Full-text
DOCUMENT NUMBER: 106:178063
ORIGINAL REFERENCE NO.: 106:28901a,28904a
TITLE: Binders for pigment printing of textiles
INVENTOR(S): Schmidt-Thuemmes, Juergen; Uhl, Guenter; Schoepke,

Holger
PATENT ASSIGNEE(S): BASF A.-G. , Fed. Rep. Ger.
SOURCE: Ger. Offen., 5 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3525799	A1	19870122	DE 1985-3525799	19850719 <--
EP 209029	A1	19870121	EP 1986-109207	19860705 <--
EP 209029	B1	19881130		
R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
AT 39005	T	19881215	AT 1986-109207	19860705 <--
DK 8603422	A	19870120	DK 1986-3422	19860718 <--

PRIORITY APPLN. INFO.: DE 1985-3525799 A 19850719 <--
EP 1986-109207 A 19860705 <--

AB Self-crosslinking binders in the form of an emulsion polymerizate for pigment printing of textiles comprise butadiene and/or isoprene 10-70, C8-18 alkyl esters of (meth)acrylic acid 10-50, acrylonitrile and/or styrene 10-40, N-methylolacrylamide, N-methylolmetharylamide and/or their C1-4 alkyl ethers 0.5-10, and copolymerizable monoethylenically unsatd. compds. 0-5%. A stable latex (44%) was prepared from butadiene 5.0 2-ethylhexyl acrylate 2.5, acrylonitrile 2.5, and N-methylolmethacrylamide 0.5 kg by free radical polymerization and used as a binder in a variety of Cu phthalocyanine printing pastes containing hydrocarbons, no hydrocarbons, or little hydrocarbons and showed high printing paste viscosities in all applications whereas binders prepared from C≤6-alkyl acrylates showed lowered print paste viscosities..

IC ICM C08F236-04
ICS C08F220-18; C08F220-44; C08F220-58; C09D003-36; C09D003-80
CC 40-6 (Textiles and Fibers)

IT Textile printing
(pigment, self-crosslinking binders for)

IT Binding materials
(self-crosslinking, for pigment printing)

IT 78-79-5D, polymers with acrylic acid derivs. 79-10-7D, Acrylic acid, esters, polymers with butadienes 100-42-5D, polymers with butadiene and methylol(meth)acrylamide 103-11-7D, polymers with butadiene and methylol(meth)acrylamide 106-99-0D, Butadiene, polymers with acrylic acid derivs. 107-13-1D, Acrylonitrile, polymers with butadienes 923-02-4D, N-Methylolmethacrylamide, polymers with butadienes 924-42-5D, N-Methanolacrylamide, polymers with butadienes 2156-97-0D, Lauryl acrylate, polymers with butadiene and methylol(meth)acrylamide 4813-57-4D, Stearyl acrylate, polymers with butadiene and methylol(meth)acrylamide 25135-82-4 108144-02-1 108144-03-2 108144-04-3
RL: USES (Uses)
(binders, for textile printing paste)

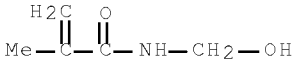
IT 108144-02-1 108144-03-2 108144-04-3
RL: USES (Uses)
(binders, for textile printing paste)

RN 108144-02-1 CAPLUS

CN 2-Propenoic acid, 2-ethylhexyl ester, polymer with 1,3-butadiene, N-(hydroxymethyl)-2-methyl-2-propenamide and 2-propenenitrile (9CI) (CA INDEX NAME)

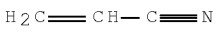
CM 1

CRN 923-02-4
CMF C5 H9 N O2



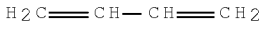
CM 2

CRN 107-13-1
CMF C3 H3 N



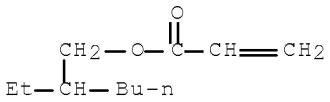
CM 3

CRN 106-99-0
CMF C4 H6



CM 4

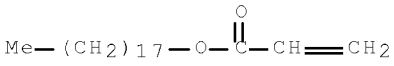
CRN 103-11-7
CMF C11 H20 O2



RN 108144-03-2 CAPLUS
CN 2-Propenoic acid, octadecyl ester, polymer with 1,3-butadiene, N-(hydroxymethyl)-2-methyl-2-propenamide and 2-propenenitrile (9CI) (CA INDEX NAME)

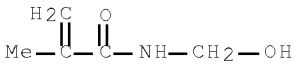
CM 1

CRN 4813-57-4
CMF C21 H40 O2



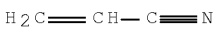
CM 2

CRN 923-02-4
CMF C5 H9 N O2



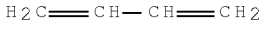
CM 3

CRN 107-13-1
CMF C3 H3 N



CM 4

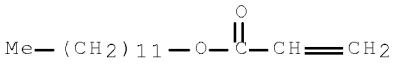
CRN 106-99-0
CMF C4 H6



RN 108144-04-3 CAPLUS
CN 2-Propenoic acid, dodecyl ester, polymer with 1,3-butadiene, N-(hydroxymethyl)-2-methyl-2-propenamide and 2-propenenitrile (9CI) (CA INDEX NAME)

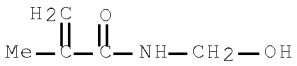
CM 1

CRN 2156-97-0
CMF C15 H28 O2



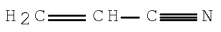
CM 2

CRN 923-02-4
CMF C5 H9 N O2



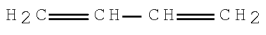
CM 3

CRN 107-13-1
CMF C3 H3 N



CM 4

CRN 106-99-0
CMF C4 H6



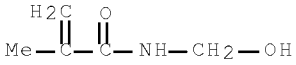
OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L95 ANSWER 43 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1986:609787 CAPLUS Full-text
DOCUMENT NUMBER: 105:209787
ORIGINAL REFERENCE NO.: 105:33841a,33844a
TITLE: Core-shell emulsion polymerization
AUTHOR(S): Kong, Xiaoxing; Huang, Jiande; Zhou, Hong
CORPORATE SOURCE: Chinese Textile Univ., Peop. Rep. China
SOURCE: Huaxue Shijie (1986), 27(8), 344-7
CODEN: HUAKAB; ISSN: 0367-6358
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
AB Core-shell polymer emulsions were prepared by 2-stage emulsion polymerization In the 1st stage, Me acrylate, Bu acrylate, and Me methacrylate were polymerized to prepare a core emulsion. In the 2nd stage, acrylic acid, styrene, and N-hydroxymethylacrylamide were added to the core emulsion and polymerized to give core-shell emulsions. The structure of these structures were studied by SEM. These polymers showed good thermal stability and film forming properties. They were useful as binders for textile printing.
CC 37-3 (Plastics Manufacture and Processing)
Section cross-reference(s): 40
IT Binding materials
(core-shell vinyl polymers, for textile printing)
IT 90077-57-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, by core-shell emulsion polymerization, as binders for textile
printing)
IT 90077-57-9P
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, by core-shell emulsion polymerization, as binders for textile
printing)
RN 90077-57-9 CAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, ethenylbenzene, N-(hydroxymethyl)-2-methyl-2-propenamide and 2-propenoic acid (9CI) (CA INDEX NAME)

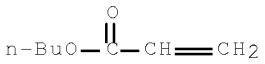
CM 1

CRN 923-02-4
CMF C5 H9 N O2



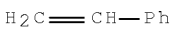
CM 2

CRN 141-32-2
CMF C7 H12 O2



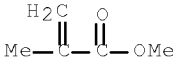
CM 3

CRN 100-42-5
CMF C8 H8



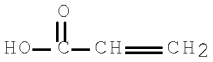
CM 4

CRN 80-62-6
CMF C5 H8 O2



CM 5

CRN 79-10-7
CMF C3 H4 O2



L95 ANSWER 44 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1986:446363 CAPLUS Full-text
DOCUMENT NUMBER: 105:46363
ORIGINAL REFERENCE NO.: 105:7619a,7622a
TITLE: Electrically conductive coating composition of a glycidyl acrylic polymer and a reactive polysiloxane
INVENTOR(S): Vasta, Joseph A.
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: U.S., 5 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4589999	A	19860520	US 1984-687361	19841228 <--
EP 189653	A2	19860806	EP 1985-308791	19851203 <--
EP 189653	A3	19870527		
R: BE, DE, FR, GB, IT, NL, SE				
CA 1258725	A1	19890822	CA 1985-497826	19851217 <--
DK 8506034	A	19860629	DK 1985-6034	19851223 <--
NO 8505267	A	19860630	NO 1985-5267	19851223 <--
AU 8551606	A	19860703	AU 1985-51606	19851223 <--
AU 577003	B2	19880908		
BR 8506523	A	19860909	BR 1985-6523	19851226 <--
JP 61162566	A	19860723	JP 1985-293394	19851227 <--
PRIORITY APPLN. INFO.:			US 1984-687361 A	19841228 <--

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

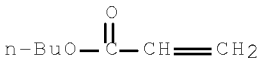
AB A coating composition has 20-90 liquid carrier, 10-80 weight% binder, and elec. conductive pigments such as carbon black and graphite in a pigment binder weight ratio of .apprx.(50-300):100. The binder is a blend of 20-90 acrylic polymer containing glycidyl groups and 10-80 weight% crosslinkable polysiloxane having attached to the Si atoms of its backbone C1-66 alkyl groups, Ph groups, and hydroxyl groups. A dry film of the 25-μ coating has an elec. resistance of 5-20 Ω. The coating is used on Pb-alloy grids of Pb-acid batteries to prolong the life of the battery or to decrease the size land weight of the battery. Thus, a Pb-Cu alloy and a Pb-Sb alloy grid were 1st coated with a 2% solution of δ-amino propyltrimethoxysilane; dried; sprayed with a coating composition containing acrylic resin solution, a polysiloxane, δ-glycidoxyypropyltrimethoxysilane, carbon black, finely divided graphite, PhMe, MeOH, and acetylacetone; and baked at .apprx.65° for .apprx.1. The resulting .apprx.40-μ film had an excellent adhesion to the alloy grids. When immersed in n H2SO4 and held at 2.3 V for 4 wk, the coating did not blister or deteriorate and no corrosion of the grid was noted, but uncoated grids exposed under the same conditions corroded severely.

IC ICM H01B001-24
INCL 252511000
CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
Section cross-reference(s): 38

IT Electrodes
(battery, grids for, glycidyl acrylic polymer-coated)
IT 38639-71-3
RL: USES (Uses)
(electrode grids coated with, for lead-acid batteries)
IT 38639-71-3
RL: USES (Uses)
(electrode grids coated with, for lead-acid batteries)
RN 38639-71-3 CAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with butyl 2-propenoate, ethenylbenzene and 2-oxiranylmethyl 2-methyl-2-propenoate (CA INDEX NAME)

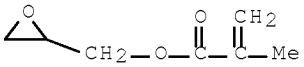
CM 1

CRN 141-32-2
CMF C7 H12 O2



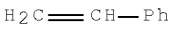
CM 2

CRN 106-91-2
CMF C7 H10 O3



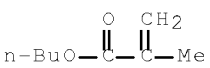
CM 3

CRN 100-42-5
CMF C8 H8



CM 4

CRN 97-88-1
CMF C8 H14 O2



OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)
REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 45 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1985:454909 CAPLUS Full-text
DOCUMENT NUMBER: 103:54909
ORIGINAL REFERENCE NO.: 103:8861a,8864a
TITLE: Polyfunctional aziridine crosslinking agents for aqueous magnetic recording media binder
INVENTOR(S): Pendergrass, Daniel B., Jr.
PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Co., USA
SOURCE: U.S., 8 pp. Cont.-in-part of U.S. Ser. No. 141,060, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4490505	A	19841225	US 1981-240265	19810316 <--
BR 8102331	A	19811215	BR 1981-2331	19810415 <--
JP 56163130	A	19811215	JP 1981-56378	19810416 <--
JP 03049944	B	19910731		

PRIORITY APPLN. INFO.: US 1980-141060 A2 19800417 <--
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
AB A dispersion of magnetizable particles in a water-thinned polymer having active H, epoxy, or epithio groups is mixed with a crosslinking agent comprising a polyfunctional aziridine derivative and coated onto a backing material such as a polyester film to prepare a magnetic recording medium. In some cases, similar dispersions containing nonmagnetizable particles are also coated on the backing material. The method eliminates the use of organic solvents and gives coated backing materials having good blocking resistance. Thus, 100 parts iron oxide particles containing a dispersant 2, Me2NCH2CH2OH 2, and H2O 120 parts were mixed with 75 parts of an emulsion containing 33.5% copolymer prepared from Bu acrylate 60, Me methacrylate 20, 2-hydroxyethyl acrylate 15, and methacrylic acid 5 parts, mixed with 2.6 parts EtC(CH2O2CCH2CH2R)3 (R = methylaziridino) [52234-82-9] and 3 parts fatty ester (lubricant), filtered, degassed, coated on a plasma-treated poly(ethylene terephthalate) [25038-59-9] film, oriented magnetically in the longitudinal direction, and dried 120 s at .apprx.90° to prepare a magnetic recording tape.
IC ICM C08L075-04
ICS B05D005-12
INCL 524591000
CC 37-6 (Plastics Manufacture and Processing)
Section cross-reference(s): 42
ST aziridine crosslinking aq binder; binder aq magnetic tape; acrylic binder aq crosslinking; polyester magnetic tape binder; iron oxide binder crosslinking
IT Binding materials
(aqueous dispersions of, for magnetic tape manufacture, crosslinking agents for)
IT Crosslinking agents
(aziridines, for aqueous binders, in magnetic tape manufacture)
IT 9010-77-9 25230-94-8 30174-67-5 65339-94-8 66331-20-2 66988-70-3 80892-80-4 80893-64-7 80941-02-2 80941-36-2 95795-66-7 105681-87-6

RL: USES (Uses)
(aqueous binders containing, aziridines for crosslinking of)

IT 7652-64-4 7722-73-8 52234-82-9 57116-46-8 80873-37-6
RL: MOA (Modifier or additive use); USES (Uses)
(crosslinking agents, for aqueous binders in magnetic tape manufacture)

IT 1309-37-1, properties
RL: PRP (Properties)
(magnetic coatings of, aqueous binders for, crosslinking agents for)

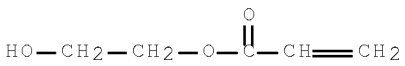
IT 25230-94-8 95795-66-7
RL: USES (Uses)
(aqueous binders containing, aziridines for crosslinking of)

RN 25230-94-8 CAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, 2-hydroxyethyl 2-propenoate and methyl 2-methyl-2-propenoate (CA INDEX NAME)

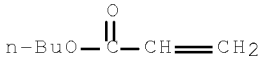
CM 1

CRN 818-61-1
CMF C5 H8 O3



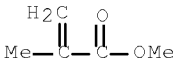
CM 2

CRN 141-32-2
CMF C7 H12 O2



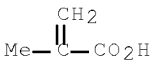
CM 3

CRN 80-62-6
CMF C5 H8 O2



CM 4

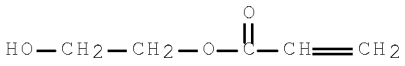
CRN 79-41-4
CMF C4 H6 O2



RN 95795-66-7 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, 2-hydroxyethyl 2-propenoate, methyl 2-methyl-2-propenoate and oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

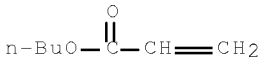
CM 1

CRN 818-61-1
CMF C5 H8 O3



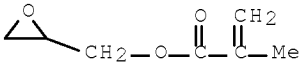
CM 2

CRN 141-32-2
CMF C7 H12 O2



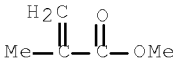
CM 3

CRN 106-91-2
CMF C7 H10 O3



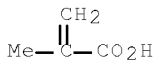
CM 4

CRN 80-62-6
CMF C5 H8 O2



CM 5

CRN 79-41-4
CMF C4 H6 O2



OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 46 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1983:523608 CAPLUS Full-text
DOCUMENT NUMBER: 99:123608
ORIGINAL REFERENCE NO.: 99:19049a,19052a
TITLE: Self-crosslinking aqueous polymer dispersion
INVENTOR(S): Fink, Herbert; Suetterlin, Norbert; Huebner, Klaus; Siol, Werner; Tilch, Willi
PATENT ASSIGNEE(S): Rohm G.m.b.H., Fed. Rep. Ger.
SOURCE: Ger. Offen., 16 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3147007	A1	19830609	DE 1981-3147007	19811127 <--
DE 3147007	C2	19831006		
EP 80635	A2	19830608	EP 1982-110514	19821115 <--
EP 80635	A3	19830706		
EP 80635	B1	19861112		
R: DE, FR, GB, NL, SE				
US 4473678	A	19840925	US 1982-441602	19821115 <--
JP 58103545	A	19830620	JP 1982-204708	19821124 <--
JP 02049337	B	19901029		

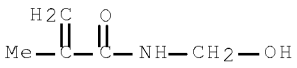
PRIORITY APPLN. INFO.: DE 1981-3147007 A 19811127 <--
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB Dispersions of copolymers prepared from H2C:CRCONHCH2OH (R = H or Me), a hydroxyalkyl ester of an α, β-unsatd. mono- or dicarboxylic acid, and other monomers such as acrylate esters, vinyl esters, and styrene are mixed with 0,2-5% urea [57-13-6], which inhibits the release of HCHO from the copolymers. The crosslinkable copolymers are useful as textile binders, etc. The urea has little effect on the rate of dissoln. of the crosslinked copolymers in solvents such as Cl2C:CHCl and iso-BuCOMe. Thus, a copolymer dispersion was prepared by emulsion polymerization of Me methacrylate 200, Bu acrylate 144, N-methylolmethacrylamide 16, 2-hydroxyethyl acrylate (I) 20, methacrylamide 12, methacrylic acid 4, and ethylene glycol dimethacrylate 4 parts and mixed with 3% urea (based on solids). The loss of HCHO from the copolymer [87097-16-3] during 15 min at 140° was 0.009%, compared with 0.154% for a dispersion containing no urea. The omission of I from the copolymer decreases the solvent resistance of the urea-containing, crosslinked copolymer.

IC C08L033-08; C08L033-10; C08L033-26; C08L031-02; C08L025-04; C08J003-06
CC 37-6 (Plastics Manufacture and Processing)
IT Binding materials
(methylolmethacrylamide copolymers, containing urea as formaldehyde acceptor)
IT Crosslinking
(of methylolmethacrylamide copolymers, urea as formaldehyde acceptor in)
IT 87097-16-3 87097-17-4 87097-18-5
87097-19-6 87097-20-9
RL: USES (Uses)
(formaldehyde acceptor for, urea as)
IT 87097-16-3 87097-17-4 87097-18-5
87097-19-6
RL: USES (Uses)
(formaldehyde acceptor for, urea as)
RN 87097-16-3 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, 1,2-ethanediyl bis(2-methyl-2-propenoate), 2-hydroxyethyl 2-propenoate, N-(hydroxymethyl)-2-methyl-2-propenamide, methyl 2-methyl-2-propenoate and 2-methyl-2-propenamide (9CI) (CA INDEX NAME)

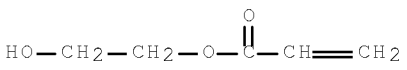
CM 1

CRN 923-02-4
CMF C5 H9 N O2



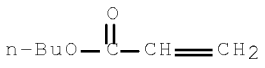
CM 2

CRN 818-61-1
CMF C5 H8 O3



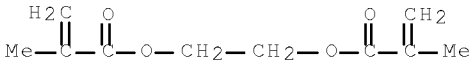
CM 3

CRN 141-32-2
CMF C7 H12 O2



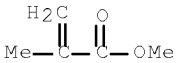
CM 4

CRN 97-90-5
CMF C10 H14 O4



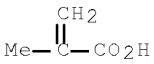
CM 5

CRN 80-62-6
CMF C5 H8 O2



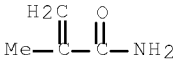
CM 6

CRN 79-41-4
CMF C4 H6 O2



CM 7

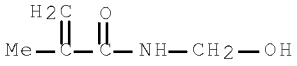
CRN 79-39-0
CMF C4 H7 N O



RN 87097-17-4 CAPLUS
CN Butanedioic acid, methylene-, polymer with ethyl 2-propenoate, 2-hydroxyethyl 2-propenoate, N-(hydroxymethyl)-2-methyl-2-propenamide and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

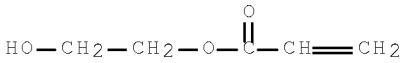
CM 1

CRN 923-02-4
CMF C5 H9 N O2



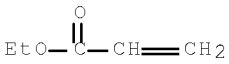
CM 2

CRN 818-61-1
CMF C5 H8 O3



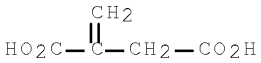
CM 3

CRN 140-88-5
CMF C5 H8 O2



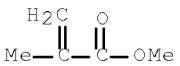
CM 4

CRN 97-65-4
CMF C5 H6 O4



CM 5

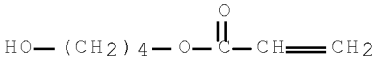
CRN 80-62-6
CMF C5 H8 O2



RN 87097-18-5 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-propenyl ester, polymer with butyl 2-propenoate, ethenylbenzene, 4-hydroxybutyl 2-propenoate and N-(hydroxymethyl)-2-methyl-2-propenamide (9CI) (CA INDEX NAME)

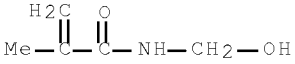
CM 1

CRN 2478-10-6
CMF C7 H12 O3



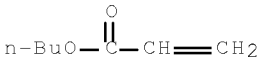
CM 2

CRN 923-02-4
CMF C5 H9 N O2



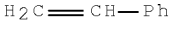
CM 3

CRN 141-32-2
CMF C7 H12 O2



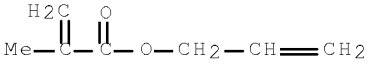
CM 4

CRN 100-42-5
CMF C8 H8



CM 5

CRN 96-05-9
CMF C7 H10 O2

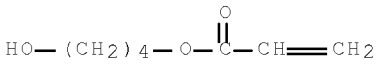


RN 87097-19-6 CAPLUS
CN 2-Propenoic acid, ethyl ester, polymer with 4-hydroxybutyl 2-propenoate

and N-(hydroxymethyl)-2-methyl-2-propenamide (9CI) (CA INDEX NAME)

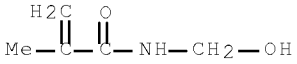
CM 1

CRN 2478-10-6
CMF C7 H12 O3



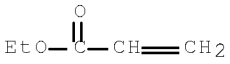
CM 2

CRN 923-02-4
CMF C5 H9 N O2



CM 3

CRN 140-88-5
CMF C5 H8 O2



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L95 ANSWER 47 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1981:210265 CAPLUS Full-text
DOCUMENT NUMBER: 94:210265
ORIGINAL REFERENCE NO.: 94:34401a,34404a
TITLE: Nonwoven fabrics
INVENTOR(S): Warburton, Charles Edward, Jr.
PATENT ASSIGNEE(S): Rohm and Haas Co., USA
SOURCE: Eur. Pat. Appl., 52 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 21693	A1	19810107	EP 1980-301922	19800609 <--
EP 21693	B1	19841003		

R: BE, DE, FR, GB, IT, NL, SE

US 4291087	A	19810922	US 1979-47839		19790612 <--
ZA 8003460	A	19810729	ZA 1980-3460		19800610 <--
CA 1139260	A1	19830111	CA 1980-353663		19800610 <--
JP 56043458	A	19810422	JP 1980-78870		19800611 <--

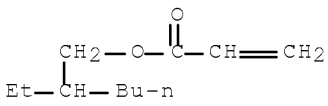
PRIORITY APPLN. INFO.: US 1979-47839 A 19790612 <--
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB Nonwoven fabrics, preferably based on hydrophobic fibers such as polyesters and polyolefins, are manufactured using a hydrophobic binder consisting of polymers from unsatd. monomers and having mol. wts. 50,000-10,000,000, glass temperature of -60° to +40°, and being free of ethylenic unsatn., photosensitive groups, or crosslinking agents. The binder-containing fiber mass is dried above the glass temperature of the polymer and exposed to a radiation source to cure the polymer chains to give a nonwoven fabric resistant to dry cleaning solvents and laundering and having high wet strength. Thus, polypropylene carded web having d. 25 g/m2 and prepared from 3 denier fibers having length 38 mm was treated with a 66:34 Bu acrylate-styrene copolymer [25767-47-9] binder to dry add on 40.0%, dried 15 min at 60° in a forced air oven, and cured by passing 6 times at 60 ft/min under 2 80 W/m Hg vapor lamps to give a fabric having dry tensile strength 189 ± 4 N/m, wet tensile strength 112 ± 9 N/m, and capable of surviving 8 wash cycles.

IC D04H001-64A
CC 39-11 (Textiles)
IT Electron beam, chemical and physical effects
(crosslinking by, of hydrophobic polymer binders on hydrophobic nonwoven textiles)
IT Binding materials
(hydrophobic radiation-curable polymers, for hydrophobic nonwoven textiles)
IT Crosslinking
(radiochem., of hydrophobic polymer binders on hydrophobic nonwoven textiles)
IT 25085-19-2 25586-20-3 25686-45-7
25767-47-9 26745-19-7 40893-50-3 65379-26-2
68156-21-8 76348-61-3 76348-62-4
76397-94-9 77729-76-1 77729-77-2
77729-78-3 77729-79-4 77729-80-7
77729-81-8 77729-82-9
RL: USES (Uses)
(binders, radiation-curable, for hydrophobic nonwoven textiles)
IT 25322-25-2 25586-20-3 25852-37-3
77729-83-0
RL: USES (Uses)
(binders, radiation-curable, for rayon nonwoven fabrics)
IT 25085-19-2 25586-20-3 25686-45-7
26745-19-7 40893-50-3 68156-21-8
76348-61-3 76348-62-4 76397-94-9
77729-76-1 77729-77-2 77729-78-3
77729-79-4 77729-80-7 77729-81-8
77729-82-9
RL: USES (Uses)
(binders, radiation-curable, for hydrophobic nonwoven textiles)
RN 25085-19-2 CAPLUS
CN 2-Propenoic acid, polymer with ethenylbenzene and 2-ethylhexyl 2-propenoate (CA INDEX NAME)

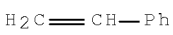
CM 1

CRN 103-11-7
CMF C11 H20 O2



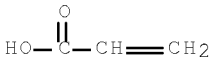
CM 2

CRN 100-42-5
CMF C8 H8



CM 3

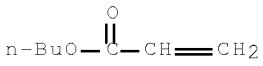
CRN 79-10-7
CMF C3 H4 O2



RN 25586-20-3 CAPLUS
CN 2-Propenoic acid, polymer with butyl 2-propenoate and ethenylbenzene (CA INDEX NAME)

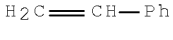
CM 1

CRN 141-32-2
CMF C7 H12 O2



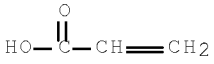
CM 2

CRN 100-42-5
CMF C8 H8



CM 3

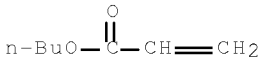
CRN 79-10-7
CMF C3 H4 O2



RN 25686-45-7 CAPLUS
CN 2-Propenoic acid, polymer with butyl 2-propenoate and 2-propenenitrile (CA INDEX NAME)

CM 1

CRN 141-32-2
CMF C7 H12 O2

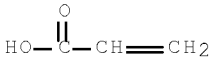


CM 2

CRN 107-13-1
CMF C3 H3 N

CM 3

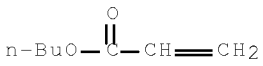
CRN 79-10-7
CMF C3 H4 O2



RN 26745-19-7 CAPLUS
CN Butanedioic acid, 2-methylene-, polymer with butyl 2-propenoate and ethenylbenzene (CA INDEX NAME)

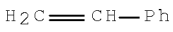
CM 1

CRN 141-32-2
CMF C7 H12 O2



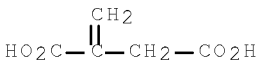
CM 2

CRN 100-42-5
CMF C8 H8



CM 3

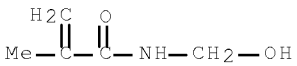
CRN 97-65-4
CMF C5 H6 O4



RN 40893-50-3 CAPLUS
CN 2-Propenoic acid, ethyl ester, polymer with N-(hydroxymethyl)-2-methyl-2-propenamide and 2-methyl-2-propenamide (CA INDEX NAME)

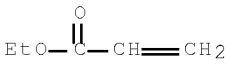
CM 1

CRN 923-02-4
CMF C5 H9 N O2



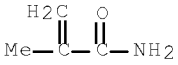
CM 2

CRN 140-88-5
CMF C5 H8 O2



CM 3

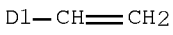
CRN 79-39-0
CMF C4 H7 N O



RN 68156-21-8 CAPLUS
CN 2-Propenoic acid, polymer with butyl 2-propenoate and ethenylmethylbenzene (CA INDEX NAME)

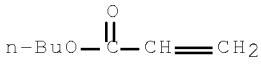
CM 1

CRN 25013-15-4
CMF C9 H10
CCI IDS



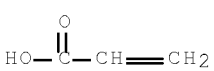
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

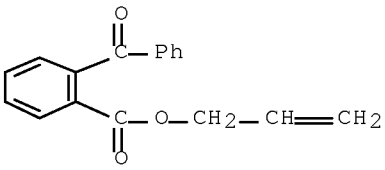
CRN 79-10-7
CMF C3 H4 O2



RN 76348-61-3 CAPLUS
CN Benzoic acid, 2-benzoyl-, 2-propenyl ester, polymer with butyl 2-propenoate, ethenylbenzene and 2-propenoic acid (9CI) (CA INDEX NAME)

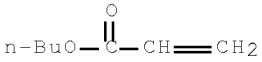
CM 1

CRN 76348-57-7
CMF C17 H14 O3



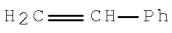
CM 2

CRN 141-32-2
CMF C7 H12 O2



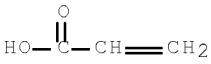
CM 3

CRN 100-42-5
CMF C8 H8



CM 4

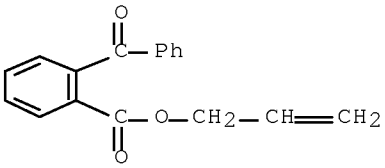
CRN 79-10-7
CMF C3 H4 O2



RN 76348-62-4 CAPLUS
CN Benzoic acid, 2-benzoyl-, 2-propenyl ester, polymer with ethenylbenzene, 2-ethylhexyl 2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

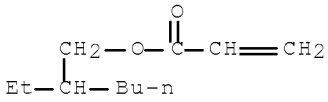
CM 1

CRN 76348-57-7
CMF C17 H14 O3



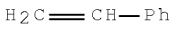
CM 2

CRN 103-11-7
CMF C11 H20 O2



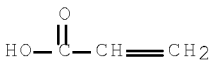
CM 3

CRN 100-42-5
CMF C8 H8



CM 4

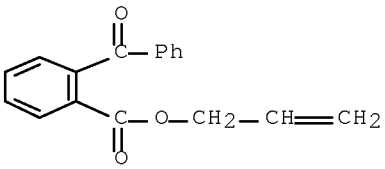
CRN 79-10-7
CMF C3 H4 O2



RN 76397-94-9 CAPLUS
CN Benzoic acid, 2-benzoyl-, 2-propenyl ester, polymer with butyl 2-propenoate, ethenylbenzene, ethenylmethylbenzene and 2-propenoic acid (9CI) (CA INDEX NAME)

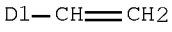
CM 1

CRN 76348-57-7
CMF C17 H14 O3



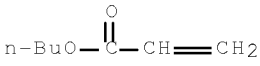
CM 2

CRN 25013-15-4
CMF C9 H10
CCI IDS



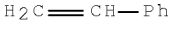
CM 3

CRN 141-32-2
CMF C7 H12 O2



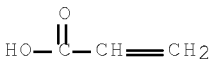
CM 4

CRN 100-42-5
CMF C8 H8



CM 5

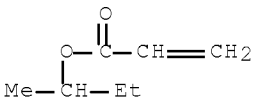
CRN 79-10-7
CMF C3 H4 O2



RN 77729-76-1 CAPLUS
CN 2-Propenoic acid, polymer with ethenylbenzene and 1-methylpropyl 2-propenoate (9CI) (CA INDEX NAME)

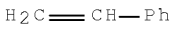
CM 1

CRN 2998-08-5
CMF C7 H12 O2



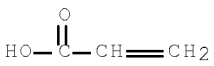
CM 2

CRN 100-42-5
CMF C8 H8



CM 3

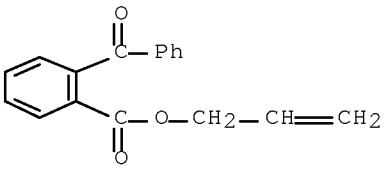
CRN 79-10-7
CMF C3 H4 O2



RN 77729-77-2 CAPLUS
CN Benzoic acid, 2-benzoyl-, 2-propenyl ester, polymer with 1-methylpropyl 2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

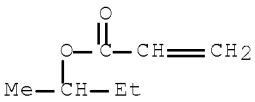
CM 1

CRN 76348-57-7
CMF C17 H14 O3



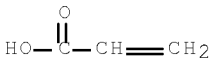
CM 2

CRN 2998-08-5
CMF C7 H12 O2



CM 3

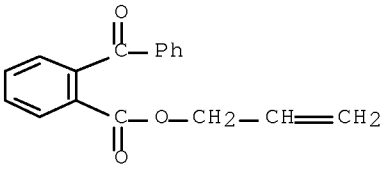
CRN 79-10-7
CMF C3 H4 O2



RN 77729-78-3 CAPLUS
CN Benzoic acid, 2-benzoyl-, 2-propenyl ester, polymer with butyl 2-propenoate, ethenylbenzene, ethyl 2-methyl-2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

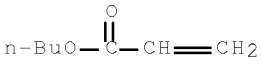
CRN 76348-57-7
CMF C17 H14 O3



CM 2

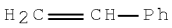
CRN 141-32-2

CMF C7 H12 O2



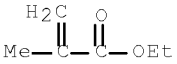
CM 3

CRN 100-42-5
CMF C8 H8



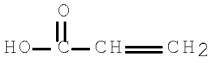
CM 4

CRN 97-63-2
CMF C6 H10 O2



CM 5

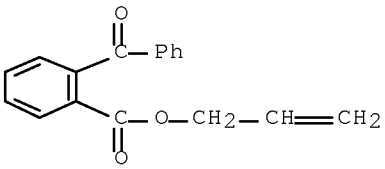
CRN 79-10-7
CMF C3 H4 O2



RN 77729-79-4 CAPLUS
CN Benzoic acid, 2-benzoyl-, 2-propenyl ester, polymer with butyl 2-methyl-2-propenoate, butyl 2-propenoate, ethenylbenzene and 2-propenoic acid (9CI) (CA INDEX NAME)

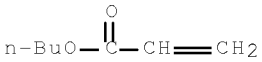
CM 1

CRN 76348-57-7
CMF C17 H14 O3



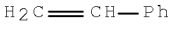
CM 2

CRN 141-32-2
CMF C7 H12 O2



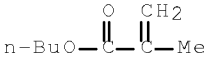
CM 3

CRN 100-42-5
CMF C8 H8



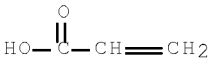
CM 4

CRN 97-88-1
CMF C8 H14 O2



CM 5

CRN 79-10-7
CMF C3 H4 O2



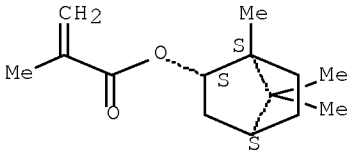
RN 77729-80-7 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-, polymer with butyl 2-propenoate and 2-propenoic acid (9CI) (CA

INDEX NAME)

CM 1

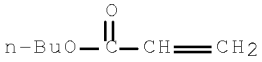
CRN 7534-94-3
CMF C14 H22 O2

Relative stereochemistry.



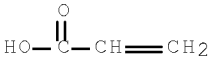
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

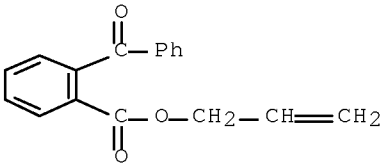
CRN 79-10-7
CMF C3 H4 O2



RN 77729-81-8 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-, polymer with butyl 2-propenoate, 2-propenoic acid and 2-propenyl 2-benzoylbenzoate (9CI) (CA INDEX NAME)

CM 1

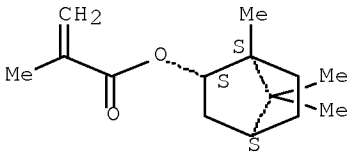
CRN 76348-57-7
CMF C17 H14 O3



CM 2

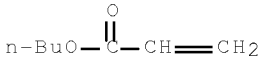
CRN 7534-94-3
CMF C14 H22 O2

Relative stereochemistry.



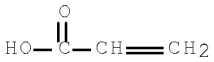
CM 3

CRN 141-32-2
CMF C7 H12 O2



CM 4

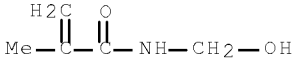
CRN 79-10-7
CMF C3 H4 O2



RN 77729-82-9 CAPLUS
CN Butanedioic acid, methylene-, polymer with butyl 2-propenoate, ethyl 2-propenoate, N-(hydroxymethyl)-2-methyl-2-propenamide, 2-propenamide and 2-propenenitrile (9CI) (CA INDEX NAME)

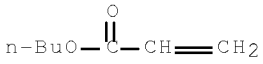
CM 1

CRN 923-02-4
CMF C5 H9 N O2



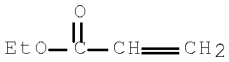
CM 2

CRN 141-32-2
CMF C7 H12 O2



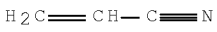
CM 3

CRN 140-88-5
CMF C5 H8 O2



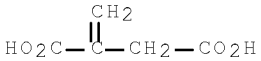
CM 4

CRN 107-13-1
CMF C3 H3 N



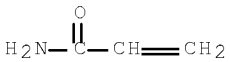
CM 5

CRN 97-65-4
CMF C5 H6 O4



CM 6

CRN 79-06-1
CMF C3 H5 N O



IT 25322-25-2 25586-20-3 77729-83-0

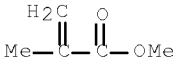
RL: USES (Uses)
(binders, radiation-curable, for rayon nonwoven fabrics)

RN 25322-25-2 CAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2-propenoic acid (CA INDEX NAME)

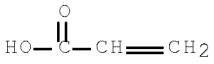
CM 1

CRN 80-62-6
CMF C5 H8 O2



CM 2

CRN 79-10-7
CMF C3 H4 O2

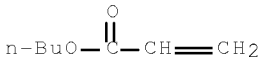


RN 25586-20-3 CAPLUS

CN 2-Propenoic acid, polymer with butyl 2-propenoate and ethenylbenzene (CA INDEX NAME)

CM 1

CRN 141-32-2
CMF C7 H12 O2



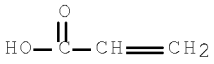
CM 2

CRN 100-42-5
CMF C8 H8

CM 3

CRN 79-10-7

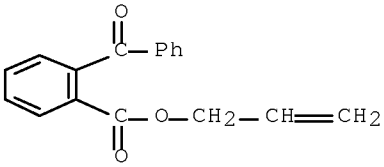
CMF C3 H4 O2



RN 77729-83-0 CAPLUS
CN Benzoic acid, 2-benzoyl-, 2-propenyl ester, polymer with ethenylbenzene, ethyl 2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

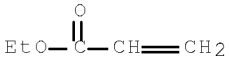
CM 1

CRN 76348-57-7
CMF C17 H14 O3



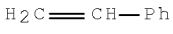
CM 2

CRN 140-88-5
CMF C5 H8 O2



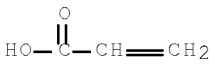
CM 3

CRN 100-42-5
CMF C8 H8



CM 4

CRN 79-10-7
CMF C3 H4 O2



OS.CITING REF COUNT: 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

L95 ANSWER 48 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1981:32147 CAPLUS Full-text
DOCUMENT NUMBER: 94:32147
ORIGINAL REFERENCE NO.: 94:5297a,5300a
TITLE: Coating, impregnating and binding agent based on an aqueous dispersion of copolymers exhibiting epoxy groups
INVENTOR(S): Czauderna, Bernhard; Einwiller, Andreas; Wendel, Kurt
PATENT ASSIGNEE(S): BASF A.-G., Fed. Rep. Ger.
SOURCE: Ger. Offen., 12 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2918827	A1	19801120	DE 1979-2918827	19790510 <--
EP 19161	A1	19801126	EP 1980-102381	19800502 <--
EP 19161	B1	19830413		
R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
JP 55151025	A	19801125	JP 1980-59550	19800507 <--
JP 01002620	B	19890118		

PRIORITY APPLN. INFO.: DE 1979-2918827 A 19790510 <--

AB The title compns., which are storage-stable and give off no HCHO in use, contain 6-membered (hetero)cyclic compds. containing 2-4 (dimethylamino)alkyl groups. Thus, a latex containing .apprx.600 parts 288:43:288 Et acrylate-glycidyl acrylate-vinyl acetate copolymer [76091-23-1] and 16 parts C6H3(CH2NMe2)3 [76091-38-8] is diluted to 15% solids. A carded fleece (40 g/m2) of 60:40 3.3-denier polyamide-polyester fibers (length 50 and 40 mm, resp.) is impregnated with this binder, squeezed, and dried 6 min at 150° to give a 3:1 fiber-binder fleece with excellent resistance to dry cleaning, e.g. by C2Cl4.

IC C09D003-58; D06M015-30
CC 39-11 (Textiles)
ST binder textile nonwoven; glycidyl acrylate copolymer binder; catalyst crosslinking binder; amine catalyst crosslinking; vinyl acetate copolymer binder
IT Crosslinking catalysts
(cyclic polyamines, for glycidyl acrylate copolymer binders for nonwoven fabrics)
IT Binding materials
(glycidyl acrylate copolymers, for nonwoven fabrics, formaldehyde-free)
IT 27274-54-0 41259-37-4 76091-23-1
RL: USES (Uses)
(binders, formaldehyde-free, for nonwoven textiles)
IT 15875-13-5 76091-38-8 76091-96-8
RL: CAT (Catalyst use); USES (Uses)
(catalysts, for crosslinking of glycidyl acrylate copolymer binders, in nonwoven textiles)
IT 27274-54-0 41259-37-4 76091-23-1

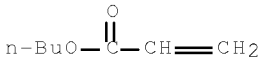
RL: USES (Uses)
(binders, formaldehyde-free, for nonwoven textiles)

RN 27274-54-0 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-oxiranylmethyl ester, polymer with butyl 2-propenoate and 2-propenenitrile (CA INDEX NAME)

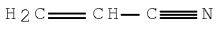
CM 1

CRN 141-32-2
CMF C7 H12 O2



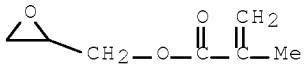
CM 2

CRN 107-13-1
CMF C3 H3 N



CM 3

CRN 106-91-2
CMF C7 H10 O3

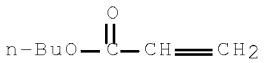


RN 41259-37-4 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-oxiranylmethyl ester, polymer with butyl 2-propenoate and ethyl 2-propenoate (CA INDEX NAME)

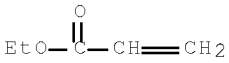
CM 1

CRN 141-32-2
CMF C7 H12 O2



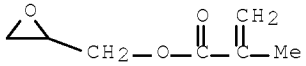
CM 2

CRN 140-88-5
CMF C5 H8 O2



CM 3

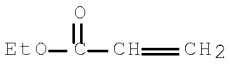
CRN 106-91-2
CMF C7 H10 O3



RN 76091-23-1 CAPLUS
CN 2-Propenoic acid, ethyl ester, polymer with ethenyl acetate and oxiranylmethyl 2-propenoate (9CI) (CA INDEX NAME)

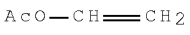
CM 1

CRN 140-88-5
CMF C5 H8 O2



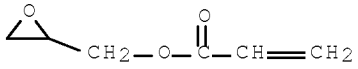
CM 2

CRN 108-05-4
CMF C4 H6 O2



CM 3

CRN 106-90-1
CMF C6 H8 O3



OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L95 ANSWER 49 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1979:612006 CAPLUS Full-text
DOCUMENT NUMBER: 91:212006
ORIGINAL REFERENCE NO.: 91:34177a,34180a
TITLE: Copolymer dispersions by polymerization of acrylic acid esters
INVENTOR(S): Hann, Ernst Wilhelm; Neubach, Werner
PATENT ASSIGNEE(S): BASF A.-G., Fed. Rep. Ger.
SOURCE: Ger. Offen., 15 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

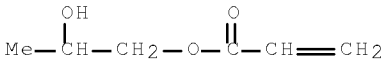
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2812038	A1	19790927	DE 1978-2812038	19780320 <--
PRIORITY APPLN. INFO.:			DE 1978-2812038	19780320 <--

AB The title dispersions, stable in the presence of cationic resins and useful as binders for glass fibers, are prepared by polymerization in the presence of 0.5-1% Na or NH4 sulfate of a polyoxyalkylene, with addition of 1-4% similar surfactant after polymerization Thus, adding 7% aqueous Na2S2O8 and an emulsion of Me methacrylate 4376, iso-Bu acrylate 3852, methacrylamide 270, 2-hydroxypropyl acrylate 254, 35% aqueous Na phosphate of polyoxyethylated p-isooctylphenol (d.p. 25) 150, and H2O 4600 parts over 3 h to 45 parts 35% aqueous p-iso-C8H17C6H4(OCH2CH2)25OSO3Na [51441-90-8] stirred at 85°, cooling, and adding 150 parts 50% aqueous Na sulfate of polyoxyethylated tallow fatty alc. (d.p. 80) gives a 45% copolymer [72021-73-9] dispersion compatible with cationic resins.

IC C08F220-18; C08F002-26
CC 35-3 (Synthetic High Polymers)
IT Binding materials
(acrylic polymer latexes, for glass fibers, manufacture of)
IT 33970-62-6P 34345-16-9P 72021-73-9P 72021-80-8P
72021-81-9P 72034-21-0P
RL: PREP (Preparation)
(latexes, manufacture of, emulsifiers for)
IT 72021-81-9P
RL: PREP (Preparation)
(latexes, manufacture of, emulsifiers for)
RN 72021-81-9 CAPLUS
CN 2-Propenoic acid, ethyl ester, polymer with ethenylbenzene, N-(hydroxymethyl)-2-methyl-2-propenamide and 2-hydroxypropyl 2-propenoate (9CI) (CA INDEX NAME)

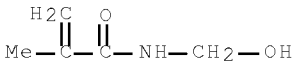
CM 1

CRN 999-61-1
CMF C6 H10 O3



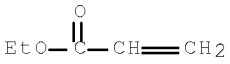
CM 2

CRN 923-02-4
CMF C5 H9 N O2



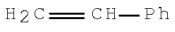
CM 3

CRN 140-88-5
CMF C5 H8 O2



CM 4

CRN 100-42-5
CMF C8 H8



L95 ANSWER 50 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1979:576959 CAPLUS Full-text
DOCUMENT NUMBER: 91:176959
ORIGINAL REFERENCE NO.: 91:28541a,28544a
TITLE: Wood particleboard materials using formaldehyde binding agent
INVENTOR(S): Graser, Martin; Hann, Ernst Wilhelm; Henkel, Helmut; Mayer, Johann; Schmidt-Hellerau, Christof
PATENT ASSIGNEE(S): BASF A.-G., Fed. Rep. Ger.
SOURCE: Eur. Pat. Appl., 15 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1237	A1	19790404	EP 1978-100818	19780904 <--
EP 1237	B1	19810617		
R: BE, DE, FR, SE				

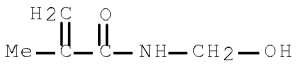
AT 7806444 A 19810815 AT 1978-6444 19780906 <--
AT 366398 B 19820413
PRIORITY APPLN. INFO.: DE 1977-2740207 19770907 <--

AB Treating wood chips with aqueous emulsions containing paraffin, urea (I) [57-13-6], and acrylate copolymers and then with aminoplast solns., and hot-pressing gave particleboard with low HCHO emission. Thus, a 50:50 beech-spruce chip mixture was treated with a 4.47% mixture of Bu acrylate-Et acrylate-N-(hydroxymethyl)methacrylamide copolymer [71803-25-3], I, and paraffin and then with a 12% mixture of Kauramin [25212-25-3], NH4Cl, NH4OH, and I based on dry weight of chips, and pressed for 6 min at 165° and 2.5 N/mm2 to give a board having thickness 23 mm, moisture content 15.4%, d. 620 kg/m3, bending strength 18.6 N/mm2, swelling 1.5% after 2 h soaking in H2O, and HCHO emission 0.01%.

IC C08L097-02; B29J005-00; C08L061-20
CC 43-8 (Cellulose, Lignin, Paper, and Other Wood Products)
Section cross-reference(s): 37
IT Binding materials
(aminoplasts and urea-containing acrylic copolymers, for manufacture of particleboard)
IT 71803-25-3 71804-19-8 71804-20-1 71835-17-1
RL: USES (Uses)
(urea containing paraffins and, binders, for particleboards)
IT 71804-20-1
RL: USES (Uses)
(urea containing paraffins and, binders, for particleboards)
RN 71804-20-1 CAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, N-(hydroxymethyl)-2-methyl-2-propenamide and 1,2-propanediol mono-2-propenoate (9CI) (CA INDEX NAME)

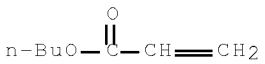
CM 1

CRN 923-02-4
CMF C5 H9 N O2



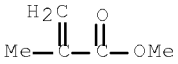
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

CRN 80-62-6
CMF C5 H8 O2

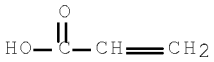


CM 4

CRN 25584-83-2
CMF C6 H10 O3
CCI IDS

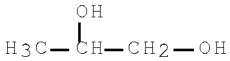
CM 5

CRN 79-10-7
CMF C3 H4 O2



CM 6

CRN 57-55-6
CMF C3 H8 O2



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L95 ANSWER 51 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1979:88640 CAPLUS Full-text
DOCUMENT NUMBER: 90:88640
ORIGINAL REFERENCE NO.: 90:14059a,14062a
TITLE: Effect of the composition of binders on the quality of pigment printing
AUTHOR(S): Vedeneeva, S. N.; Didenko, M. A.; Gandurin, L. I.; Gerasimova, A. S.
CORPORATE SOURCE: Vses. Nauchno-Issled. Inst. Prir. Khim. Volokna, Moscow, USSR
SOURCE: Tekstil'naya Promyshlennost (Moscow, Russian Federation) (1978), (11), 57-60
CODEN: TTLPA2; ISSN: 0040-2397
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB Stable pigment prints with good physicochem. and mech. properties are obtained using polymer binders containing both COOH and CH2OH groups, i.e. 8:4.5:3.5:14 Bu acrylate-methacrylic acid-N-methylolmethacrylamide-styrene copolymer [65291-56-7]. The effect of the composition of the binder on physicomech. properties. of films and the quality of printed fabrics was determined Soft, elastic films were obtained from polymers containing Bu acrylate and chemical

resistant films were obtained from polymers containing Me methacrylate and styrene. Dispersions with the highest stability were obtained in the presence of S 10 [60328-41-8] emulsifier. Pigment printing with binders containing ≤4% emulsifier and having pH <5 gave good results on acetate, triacetate, rayon and polyester fabrics.

CC 39-7 (Textiles)

IT Binding materials
(acrylic polymers, for textile printing, composition effect on properties of)

IT 25035-69-2 25035-89-6 25951-39-7 26715-67-3 27340-76-7
28935-09-3 65291-56-7 69254-23-5
69383-11-5
RL: USES (Uses)
(binder, for pigment printing on textiles)

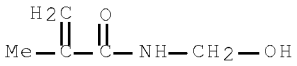
IT 65291-56-7 69254-23-5 69383-11-5
RL: USES (Uses)
(binder, for pigment printing on textiles)

RN 65291-56-7 CAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene and N-(hydroxymethyl)-2-methyl-2-propenamide (CA INDEX NAME)

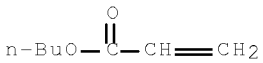
CM 1

CRN 923-02-4
CMF C5 H9 N O2



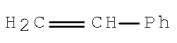
CM 2

CRN 141-32-2
CMF C7 H12 O2



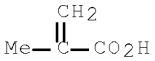
CM 3

CRN 100-42-5
CMF C8 H8



CM 4

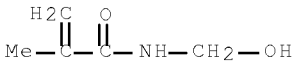
CRN 79-41-4
CMF C4 H6 O2



RN 69254-23-5 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene, N-(hydroxymethyl)-2-methyl-2-propenamide and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

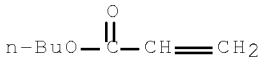
CM 1

CRN 923-02-4
CMF C5 H9 N O2



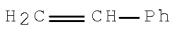
CM 2

CRN 141-32-2
CMF C7 H12 O2



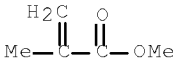
CM 3

CRN 100-42-5
CMF C8 H8



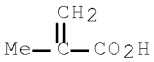
CM 4

CRN 80-62-6
CMF C5 H8 O2



CM 5

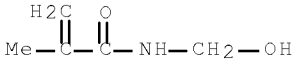
CRN 79-41-4
CMF C4 H6 O2



RN 69383-11-5 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, N-(hydroxymethyl)-2-methyl-2-propenamide and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

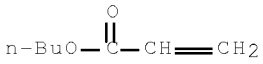
CM 1

CRN 923-02-4
CMF C5 H9 N O2



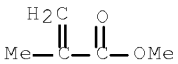
CM 2

CRN 141-32-2
CMF C7 H12 O2



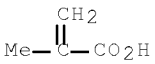
CM 3

CRN 80-62-6
CMF C5 H8 O2



CM 4

CRN 79-41-4
CMF C4 H6 O2



L95 ANSWER 52 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1978:445001 CAPLUS Full-text
DOCUMENT NUMBER: 89:45001
ORIGINAL REFERENCE NO.: 89:7023a,7026a
TITLE: Acrylic latex for use on textile materials
INVENTOR(S): Plamondon, Joseph Edward; Wilber, William Robert; Goth, Stephen
PATENT ASSIGNEE(S): Rohm and Haas Co., USA
SOURCE: Ger. Offen., 29 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2726806	A1	19771229	DE 1977-2726806	19770614 <--
US 4107120	A	19780815	US 1976-697171	19760617 <--
CA 1112387	A1	19811110	CA 1977-279849	19770603 <--
ZA 7703463	A	19780726	ZA 1977-3463	19770608 <--
GB 1583671	A	19810128	GB 1977-24352	19770610 <--
BR 7703801	A	19780509	BR 1977-3801	19770613 <--
BE 855743	A1	19771216	BE 1977-178487	19770616 <--
SE 7707021	A	19771218	SE 1977-7021	19770616 <--
NL 7706667	A	19771220	NL 1977-6667	19770616 <--
JP 53002590	A	19780111	JP 1977-71584	19770616 <--
JP 55046645	B	19801125		
FR 2355038	A1	19780113	FR 1977-18571	19770616 <--
FR 2355038	B1	19800425		
AU 7726170	A	19781221	AU 1977-26170	19770616 <--
AU 511706	B2	19800904		
US 4181769	A	19800101	US 1977-837964	19770929 <--
PRIORITY APPLN. INFO.:			US 1976-697171 A	19760617 <--

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

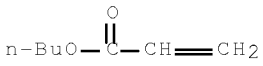
AB Heterpolymer latexes containing particles consisting of 30-60% polymeric core and 70-40% polymeric skin are manufactured by a 2-step emulsion polymerization of acrylic monomer mixts. containing small amts. of crosslinking agents which provide a core polymer having glass transition temperature, Tg, ≤-20° and a skin polymer having Tg 60 to -10°. The latexes are used to manufacture upholstery fabrics with good hand, drape, and low-temperature properties, coat leather and prepare (as binder)nonwoven fabrics. Thus, a heteropolymer latex containing 48% solids consisting of equal amts of a core 1:86:1:7:5 allyl methacrylate-Bu acrylate-itaconic acid-methacrylamide-Me methacrylate copolymer [65994-26-5] and sheath 57:1:35:7 butyl acrylate-itaconic acid-Me methacrylate-N-methylolmethacrylamide copolymer [65994-27-6] was coated on a silicone-coated release paper and dried to form a 50μ-thick film. An aqueous 2:96:2 acrylamide-Bu acrylate-N-methylolacrylamide copolymer emulsion containing TiO2, Aerotex MW, NH4 stearate, and NH4OH was mech. foamed and applied as a 1500μ-thick coating to cotton twill which was dried 5 min at 120°. The latex-coated paper was placed on the foam and the composite was laminated 3 at 80° under pressure and cured 5 min at 150° after removing the

paper. The upholstery fabric product had Bally flex value 100,000 and could withstand temps. as low as -35° without cracking.

IC C08F220-00
CC 39-6 (Textiles)
IT Binding materials
(acrylic polymer emulsions, containing bicomponent particles, for nonwoven textiles)
IT 65994-26-5 65994-27-6 65994-28-7
65994-29-8
RL: USES (Uses)
(bicomponent emulsion particles containing, for coating of textiles)
IT 65994-26-5 65994-27-6 65994-28-7
RL: USES (Uses)
(bicomponent emulsion particles containing, for coating of textiles)
RN 65994-26-5 CAPLUS
CN Butanedioic acid, methylene-, polymer with butyl 2-propenoate, methyl 2-methyl-2-propenoate, 2-methyl-2-propenamide and 2-propenyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

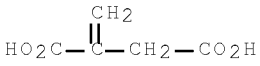
CM 1

CRN 141-32-2
CMF C7 H12 O2



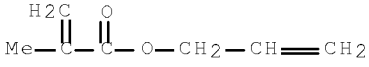
CM 2

CRN 97-65-4
CMF C5 H6 O4



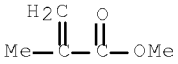
CM 3

CRN 96-05-9
CMF C7 H10 O2



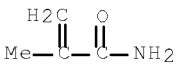
CM 4

CRN 80-62-6
CMF C5 H8 O2



CM 5

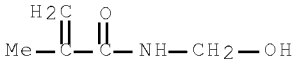
CRN 79-39-0
CMF C4 H7 N O



RN 65994-27-6 CAPLUS
CN Butanedioic acid, methylene-, polymer with butyl 2-propenoate, N-(hydroxymethyl)-2-methyl-2-propenamide and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

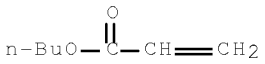
CM 1

CRN 923-02-4
CMF C5 H9 N O2



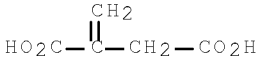
CM 2

CRN 141-32-2
CMF C7 H12 O2



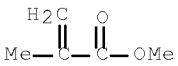
CM 3

CRN 97-65-4
CMF C5 H6 O4



CM 4

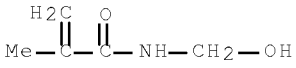
CRN 80-62-6
CMF C5 H8 O2



RN 65994-28-7 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester, polymer with butyl 2-propenoate, N-(hydroxymethyl)-2-methyl-2-propenamide and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

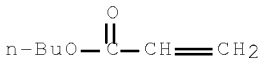
CM 1

CRN 923-02-4
CMF C5 H9 N O2



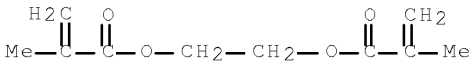
CM 2

CRN 141-32-2
CMF C7 H12 O2



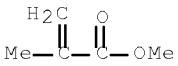
CM 3

CRN 97-90-5
CMF C10 H14 O4



CM 4

CRN 80-62-6
CMF C5 H8 O2



OS.CITING REF COUNT: 16 THERE ARE 16 CAPLUS RECORDS THAT CITE THIS RECORD (18 CITINGS)

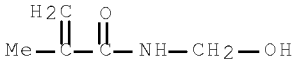
L95 ANSWER 53 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1978:63229 CAPLUS Full-text
DOCUMENT NUMBER: 88:63229
ORIGINAL REFERENCE NO.: 88:9991a,9994a
TITLE: Composition for use in printing textiles
INVENTOR(S): Gandurin, L. I.; Didenko, M. A.; Vedeneeva, S. N.; Lukina, E. M.
PATENT ASSIGNEE(S): All-Union Scientific-Research and Experimental Institute for the Processing of Chemical Fibers, USSR
SOURCE: Fr. Demande, 13 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2328747	A1	19770520	FR 1976-31042	19761015 <--
FR 2328747	B1	19790706		
SU 617467	A1	19780730	SU 1975-2182370	19751020 <--
PRIORITY APPLN. INFO.:			SU 1975-2182370 A	19751020 <--

AB Compns. for pigment printing natural and synthetic textiles by a classical procedure comprise pigment; Bu acrylate-methacrylic acid-N-methylolmethacrylamide-styrene copolymer [65291-56-7] binder 10-25; a synthetic acrylic thickener that is a copolymer of (meth)acrylic acid, an alkyl acrylate, and the dimethacrylate ester of ethylene glycol neutralized with a primary amine 1-2; a mixture of C3 or C5 alkenylamine and a hydrosiloxane 1-2; glycerol [56-81-5] 0-2; and H2O 63-87 parts.
IC C09B067-00
CC 39-7 (Textiles)
IT Binding materials
Thickening agents
(acrylic polymers, for pigment printing compns. for textiles)
IT 65291-56-7
RL: USES (Uses)
(binding agents, for pigment printing compns. for textiles)
IT 65291-56-7
RL: USES (Uses)
(binding agents, for pigment printing compns. for textiles)
RN 65291-56-7 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene and N-(hydroxymethyl)-2-methyl-2-propenamide (CA INDEX NAME)

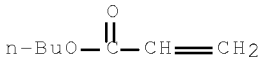
CM 1

CRN 923-02-4
CMF C5 H9 N O2



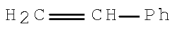
CM 2

CRN 141-32-2
CMF C7 H12 O2



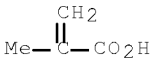
CM 3

CRN 100-42-5
CMF C8 H8



CM 4

CRN 79-41-4
CMF C4 H6 O2



L95 ANSWER 54 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1976:61138 CAPLUS Full-text
DOCUMENT NUMBER: 84:61138
ORIGINAL REFERENCE NO.: 84:10069a,10072a
TITLE: Absorbent nonwoven fabrics
INVENTOR(S): Katz, Howard; Ganslaw, Stuart H.
PATENT ASSIGNEE(S): National Starch and Chemical Corp., USA
SOURCE: U.S., 10 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3922462	A	19751125	US 1974-459465	19740410 <--
PRIORITY APPLN. INFO.:			US 1974-459465	19740410 <--

AB A permanently absorbent nonwoven fabric consisted of a web of fibers, 5-100 weight% based on fibers of a crosslinkable binder, and 0.2-10 weight%, based on fibers and binder, of a surfactant consisting of at least 1 salt of a bisalkyl sulfosuccinate having alkyl substituents containing 13-4 carbon atoms. The most preferred surfactant was bis(tridecyl) sodium sulfosuccinate (I) [2673-22-5]. Carded rayon test webs were saturated to provide a 20 weight% dry resin add-on with a solution containing a copolymer [26337-27-9] made from 400 parts vinyl acetate and 10 parts N-methylolacrylamide and 10 parts I, to give a fabric with initial absorbancy <1 sec and absorbancy after 2 aqueous extns. 6.6 sec compared to >300 sec for fabrics finished without I.

IC D06N

INCL 428290000

CC 39-11 (Textiles)

IT Binding materials
(for rayon absorptive nonwoven fabrics)

IT 25037-78-9 25085-41-0 25619-96-9 25951-70-6 26337-27-9
26428-41-1 26428-44-4 32875-87-9 58152-79-7
RL: USES (Uses)
(binding materials, for absorbent rayon nonwoven fabrics)

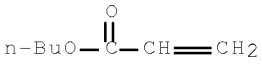
IT 25085-41-0 58152-79-7
RL: USES (Uses)
(binding materials, for absorbent rayon nonwoven fabrics)

RN 25085-41-0 CAPLUS

CN 2-Propenoic acid, polymer with butyl 2-propenoate and ethenyl acetate (CA INDEX NAME)

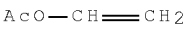
CM 1

CRN 141-32-2
CMF C7 H12 O2



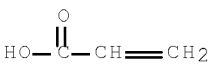
CM 2

CRN 108-05-4
CMF C4 H6 O2



CM 3

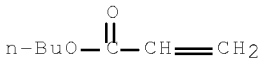
CRN 79-10-7
CMF C3 H4 O2



RN 58152-79-7 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-oxiranylmethyl ester, polymer with butyl 2-propenoate, ethyl 2-propenoate and 2-propenenitrile (CA INDEX NAME)

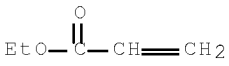
CM 1

CRN 141-32-2
CMF C7 H12 O2



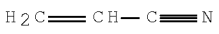
CM 2

CRN 140-88-5
CMF C5 H8 O2



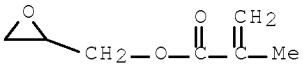
CM 3

CRN 107-13-1
CMF C3 H3 N



CM 4

CRN 106-91-2
CMF C7 H10 O3



OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

L95 ANSWER 55 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1975:580968 CAPLUS Full-text
DOCUMENT NUMBER: 83:180968
ORIGINAL REFERENCE NO.: 83:28437a,28440a

TITLE: Pigment printing pastes
INVENTOR(S): Dachs, Karl; Lengsfeld, Wolfgang; Renner, Klaus C.; Uhl, Guenter
PATENT ASSIGNEE(S): BASF A.-G., Fed. Rep. Ger.
SOURCE: Ger. Offen., 9 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

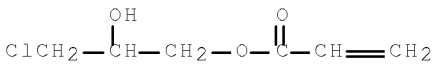
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2361423	A1	19750612	DE 1973-2361423	19731210 <--
PRIORITY APPLN. INFO.:			DE 1973-2361423	19731210 <--

AB A printing paste that produces a print of durable soft hand on natural or synthetic textile materials and their mixts. contains pigments, thickener, binder, water, emulsifier, and 0.1-1.0% methoxylated aminoplast whose methylol groups are ≥50% etherified with ≥20 mole% C10-30 alcs. and/or phenols. For example, to 100 parts 6% aqueous solution of ammonium polyacrylate were added 640 parts water, 180 parts 40% dispersion of 1:15:64:6:10:4 acrylic acid-acrylonitrile-butyl acrylate-3-chloro-2-hydroxypropyl acrylate-methyl methacrylate-N-methylolmethacrylamide polymer [56899-29-7] and 50 parts 25% aqueous paste of chlorinated Cu phthalocyanine. With vigorous stirrings, 30 parts of the reaction product between 1 mole hexakis(methoxymethyl)melamine [3089-11-0] with 3 moles dodecanol-1 [112-53-8] was emulsified in the mixture A print made on cotton with this paste gave a brilliant colors with good fastness.

IC D06P
CC 39-7 (Textiles)
IT Binding materials
(acrylic polymers-aminoplasts, for textile printing pastes)
IT 27288-66-0 28628-79-7 56899-29-7
RL: USES (Uses)
(binders, containing aminoplasts, for textile printing pastes)
IT 56899-29-7
RL: USES (Uses)
(binders, containing aminoplasts, for textile printing pastes)
RN 56899-29-7 CAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, 3-chloro-2-hydroxypropyl 2-propenoate, N-(hydroxymethyl)-2-methyl-2-propenamide, 2-propenenitrile and 2-propenoic acid (9CI) (CA INDEX NAME)

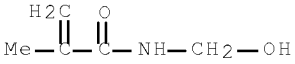
CM 1

CRN 3326-90-7
CMF C6 H9 Cl O3



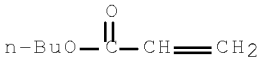
CM 2

CRN 923-02-4
CMF C5 H9 N O2



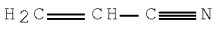
CM 3

CRN 141-32-2
CMF C7 H12 O2



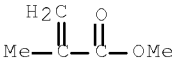
CM 4

CRN 107-13-1
CMF C3 H3 N



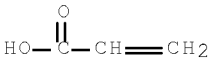
CM 5

CRN 80-62-6
CMF C5 H8 O2



CM 6

CRN 79-10-7
CMF C3 H4 O2



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L95 ANSWER 56 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1974:146955 CAPLUS Full-text

DOCUMENT NUMBER: 80:146955
ORIGINAL REFERENCE NO.: 80:23730h,23731a
TITLE: Bonded nonwoven fabric
INVENTOR(S): Kelley, Louis E.
PATENT ASSIGNEE(S): Rohm and Haas Co.
SOURCE: U.S., 6 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

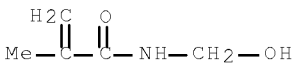
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3776810	A	19731204	US 1971-182877	19710922 <--
US 3812070	A	19740521	US 1971-208971	19711216 <--
PRIORITY APPLN. INFO.:			US 1970-36499 A2	19700511 <--
			US 1971-182877 A1	19710922 <--

AB Polyalkylene glycol-modified copolymers of N-methylolacrylamides with acrylates were used as heat-curable binders and gave nonwoven fabrics with increased resilience, solvent-resistance and migration control. Fibrous polyester webs were treated with a mixture of methylolacrylamide-ethyl acrylate copolymer [26428-44-4] and polyethylene glycol [25322-68-3] mol. weight 285-3700. A control sample prepared without the glycol component was used for comparison. The webs treated with the glycol mixture showed an improved migration control. The resilience, as tensile load, was 10-20 for glycol-treated webs and 25 g for the control samples. Solvent resistance, determined by soaking the bonded fabric 15 min in perchlorethylene was 176-234 for a web sample containing a polyethylene glycol and 166-83 oz/in for the control sample. The same procedure was used for samples with varying proportions of the polyethylene glycol, mol. weight 285-315, from 2.5-12.5 weight %. The optimum migration control and resiliency were obtained with 5% glycol addition

IC B32B
INCL 161170000
CC 39-11 (Textiles)
IT Binding materials
(polyethylene glycol-modified acrylate-methylolacrylamide-unsatd. carboxylic acid polymers, for nonwoven synthetic textiles)
IT 26139-82-2 26428-44-4 51999-23-6 51999-24-7
RL: USES (Uses)
(binders, containing polyethylene glycol, for nonwoven synthetic textiles)
IT 51999-24-7
RL: USES (Uses)
(binders, containing polyethylene glycol, for nonwoven synthetic textiles)
RN 51999-24-7 CAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, N-(hydroxymethyl)-2-methyl-2-propenamide and methyl 2-propenoate (9CI) (CA INDEX NAME)

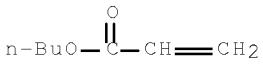
CM 1

CRN 923-02-4
CMF C5 H9 N O2



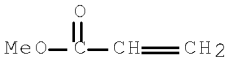
CM 2

CRN 141-32-2
CMF C7 H12 O2



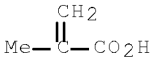
CM 3

CRN 96-33-3
CMF C4 H6 O2



CM 4

CRN 79-41-4
CMF C4 H6 O2



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L95 ANSWER 57 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1972:407260 CAPLUS Full-text
DOCUMENT NUMBER: 77:7260
ORIGINAL REFERENCE NO.: 77:1251a,1254a
TITLE: Bonded fiber filling material
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co.
SOURCE: Brit., 8 pp.
CODEN: BRXXAA
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1267294		19720315	GB 1970-15528	19700401 <--
US 3660222		19720502	US	19690401 <--
PRIORITY APPLN. INFO.:			US 1969-811819	19690401 <--

AB The title material with improved softness and support bulk, useful as filler in cushions and insulation, was prepared by discharging crimped intermingled fibers from an oscillating flat surface onto a horizontal flat surface and simultaneously spraying the layer with a resin so that 50% of the fiber contains .geq.70.deg. of the resin after each pass of the oscillating surface. Thus, poly(ethylene terephthalate) fibers (about 9.5 crimps per in.) were discharged from a conventional double-doffer garnett-crosslapper system onto an apron at 10 ft. per min and sprayed simultaneously with a composition containing a 23% solids Et acrylate-methacrylic acid-methyl methacrylate-N-methylolmethacrylamide copolymer (I) [30943-44-3] emulsion and a crosslinker to give a laminate of 10 thin fiber layers containing about 75% I in the top half of each layer. The laminate was heated 2 and 4 min at 196.deg. to give soft material with a filling support weight 1.80 lbs. compared with 2.2 lbs. for previously prepared filler of similar softness. Process and apparatus and diagrams are given.

IC B32B; D04H

CC 39-11 (Textiles)

IT Binding materials
(acrylic polymers, for intermingled crimped polyester fibers for cushion filling material)

IT 30943-44-3
RL: USES (Uses)
(binding materials, for crimped intermingled polyester fibers, for filling materials for cushion)

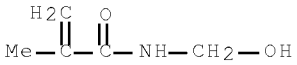
IT 30943-44-3
RL: USES (Uses)
(binding materials, for crimped intermingled polyester fibers, for filling materials for cushion)

RN 30943-44-3 CAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate, N-(hydroxymethyl)-2-methyl-2-propenamide and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

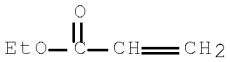
CM 1

CRN 923-02-4
CMF C5 H9 N O2



CM 2

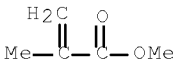
CRN 140-88-5
CMF C5 H8 O2



CM 3

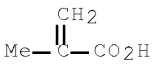
CRN 80-62-6

CMF C5 H8 O2



CM 4

CRN 79-41-4
CMF C4 H6 O2



L95 ANSWER 58 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1971:32667 CAPLUS Full-text
DOCUMENT NUMBER: 74:32667
ORIGINAL REFERENCE NO.: 74:5241a,5244a
TITLE: Manufacturing of bound, nonwoven fabric according to the wet process
INVENTOR(S): Stephan, Rudolf; Bug, Willi; Frank, Hans Ulrich
PATENT ASSIGNEE(S): Badische Anilin- & Soda-Fabrik AG
SOURCE: Ger. Offen., 7 pp. Addn. to Ger. Offen. 1,769,700
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1915156	A	19701001	DE 1969-1915156	19690325 <--
SE 352390	B	19721227	SE 1970-3946	19700302 <--
NL 7003869	A	19700929	NL 1970-3869	19700318 <--
FR 2035874	A6	19701224	FR 1970-10360	19700323 <--
FR 2035874	B2	19740503		
GB 1296418	A	19721115	GB 1970-1296418	19700324 <--
JP 49026103	B	19740705	JP 1970-24526	19700325 <--

PRIORITY APPLN. INFO.: DE 1969-1915156 A 19690325 <--

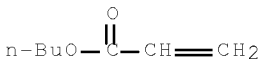
AB The wet process for nonwoven fabrics (Ger. Offen. 1,769,700) was modified by bonding fibers with an acrylic polymer, polyamide, and a water-soluble cationic polycondensate. A suspension of viscose fibers, birch cellulose, and polyamide fibers in water containing a cationic condensate of urea, dicyandiamide, and HCHO was treated with an aqueous suspension of 93:3:3:1 Bu acrylate-N-methylolmethacrylamide-acrylonitrile-acrylic acid copolymer and an aqueous solution of 1:1:0.22 copolyamide of adipic acid, diethylenetriamine, and caprolactam, crosslinked with 1.4 mole epichlorohydrin. The stirred suspension was filtered and dried at 120° to give desired fleece having dry abrasion resistance (DIN 53112) 120 kg/cm2.

IC D21H005-20
CC 39 (Textiles)
IT Binding materials
(acrylic polymers, for nonwoven fabrics)

IT 25085-41-0, uses and miscellaneous 27968-41-8, uses and miscellaneous 28430-11-7 28928-66-7, uses and miscellaneous
RL: USES (Uses)
(binders, for nonwoven textiles)
IT 25085-41-0, uses and miscellaneous 28430-11-7 28928-66-7, uses and miscellaneous
RL: USES (Uses)
(binders, for nonwoven textiles)
RN 25085-41-0 CAPLUS
CN 2-Propenoic acid, polymer with butyl 2-propenoate and ethenyl acetate (CA INDEX NAME)

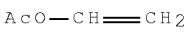
CM 1

CRN 141-32-2
CMF C7 H12 O2



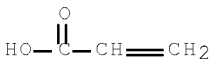
CM 2

CRN 108-05-4
CMF C4 H6 O2



CM 3

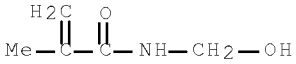
CRN 79-10-7
CMF C3 H4 O2



RN 28430-11-7 CAPLUS
CN 2-Propenoic acid, polymer with butyl 2-propenoate and N-(hydroxymethyl)-2-methyl-2-propenamide (9CI) (CA INDEX NAME)

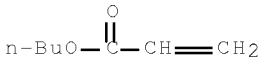
CM 1

CRN 923-02-4
CMF C5 H9 N O2



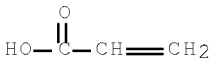
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

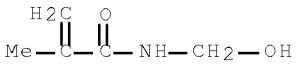
CRN 79-10-7
CMF C3 H4 O2



RN 28928-66-7 CAPLUS
CN 2-Propenoic acid, polymer with butyl 2-propenoate, N-(hydroxymethyl)-2-methyl-2-propenamide and 2-propenenitrile (CA INDEX NAME)

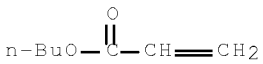
CM 1

CRN 923-02-4
CMF C5 H9 N O2



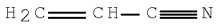
CM 2

CRN 141-32-2
CMF C7 H12 O2



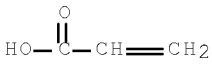
CM 3

CRN 107-13-1
CMF C3 H3 N



CM 4

CRN 79-10-7
CMF C3 H4 O2



L95 ANSWER 59 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1971:23615 CAPLUS Full-text
DOCUMENT NUMBER: 74:23615
ORIGINAL REFERENCE NO.: 74:3825a,3828a
TITLE: Wet-bonded textile fibrous films
PATENT ASSIGNEE(S): Badische Anilin- & Soda-Fabrik AG
SOURCE: Fr. Demande, 9 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2014444		19700417	FR 1969-21737	19690627 <--
DE 1769700			DE	
GB 1263488			GB	
US 3635776		19720118	US	19690627 <--

PRIORITY APPLN. INFO.: DE 19680629 <--

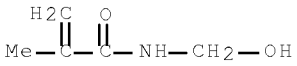
AB Fibrous films with improved tensile strength, hand, and tear resistance were prepared by the wet-bonding of fiber suspensions with aqueous polymeric binders. Thus, an aqueous suspension of polycaprolactam fibers, ethoxylated fatty alc., urea-cyanoguanidine-HCHO-ammonium chloride polycondensate, rosin soap, and Bu acrylate-acrylic acid N-(hydroxymethyl)methacrylamide-acrylonitrile copolymers was placed on a film-forming machine, and the film dried to give a product suitable for manufacturing clothes and disposable articles with good mech. properties.

IC D04H; D06M
CC 39 (Textiles)
IT Binding materials
(acrylic polymers-urea condensation products, for wet-bonding of synthetic fibrous films)
IT 28928-66-7, uses and miscellaneous
RL: USES (Uses)
(binders, for synthetic fibrous films)
IT 28928-66-7, uses and miscellaneous
RL: USES (Uses)

(binders, for synthetic fibrous films)
RN 28928-66-7 CAPLUS
CN 2-Propenoic acid, polymer with butyl 2-propenoate, N-(hydroxymethyl)-2-methyl-2-propenamide and 2-propenenitrile (CA INDEX NAME)

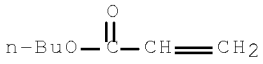
CM 1

CRN 923-02-4
CMF C5 H9 N O2



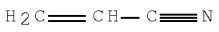
CM 2

CRN 141-32-2
CMF C7 H12 O2



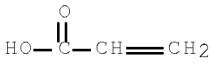
CM 3

CRN 107-13-1
CMF C3 H3 N



CM 4

CRN 79-10-7
CMF C3 H4 O2



L95 ANSWER 60 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1971:23614 CAPLUS Full-text
DOCUMENT NUMBER: 74:23614
ORIGINAL REFERENCE NO.: 74:3825a,3828a
TITLE: Wet-bonded textile fibrous films
PATENT ASSIGNEE(S): Badische Anilin- & Soda-Fabrik AG

SOURCE: Fr. Demande, 9 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2014443		19700417	FR 1969-21736	19690627 <--
DE 1769699			DE	
GB 1263098			GB	
US 3657031		19720418	US	19690627 <--

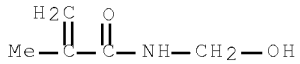
PRIORITY APPLN. INFO.: DE 19680629 <--

AB Hygienic disposable articles with improved hand were prepared from rayon or polycaprolactam fibers, pretreated with an organic quaternary ammonium salt, and wet-bonded with aqueous polymeric binders. Thus, an aqueous suspension of rayon fibers and dodecylbenzyldimethylammonium chloride was treated with 1:1 Me acrylate-acrylonitrile copolymer, saponified with HN3, treated with Bu acrylate-acrylic acid-N-(hydroxymethyl)methacrylamide copolymers, sulfated ethylene oxide-nonylphenol adduct, and Turkey red oil, and placed on a film-forming machine to give a hygienic disposable article with fungicidal and bactericidal properties.

IC D04H; A61F; D06M
CC 39 (Textiles)
IT Binding materials
(acrylic polymers, for ammonium salt-treated synthetic fibers in hygienic disposable article manufacture)
IT 24968-79-4, uses and miscellaneous 25085-41-0, uses and miscellaneous
25549-84-2 26604-01-3, uses and miscellaneous 28430-11-7
30660-66-3 30660-67-4, uses and miscellaneous 30660-68-5
RL: USES (Uses)
(binders, for hygienic disposable article manufacture from synthetic fibers treated with quaternary ammonium salts)
IT 28430-11-7
RL: USES (Uses)
(binders, for hygienic disposable article manufacture from synthetic fibers treated with quaternary ammonium salts)
RN 28430-11-7 CAPLUS
CN 2-Propenoic acid, polymer with butyl 2-propenoate and N-(hydroxymethyl)-2-methyl-2-propenamide (9CI) (CA INDEX NAME)

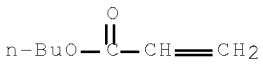
CM 1

CRN 923-02-4
CMF C5 H9 N O2



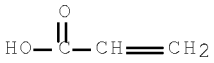
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

CRN 79-10-7
CMF C3 H4 O2



L95 ANSWER 61 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1971:23412 CAPLUS Full-text
DOCUMENT NUMBER: 74:23412
ORIGINAL REFERENCE NO.: 74:3797a,3800a
TITLE: Self-cross-linking aqueous emulsions
INVENTOR(S): Chujo, Sumi; Harada, Yoichi; Ueda, Shinichi; Tokuhara, Shinji; Tanaka, Kazunobu; Kojima, Katsumi
PATENT ASSIGNEE(S): Daicell Co., Ltd.
SOURCE: Jpn. Tokkyo Koho, 10 pp.
CODEN: JAXXAD
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

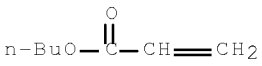
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 45028999	B4	19700921	JP	19670630 <--

AB Mixts. (35-80 parts) (A) of vinyl acetate or (and) vinyl propionate and acrylonitrile or (and) a methacrylate, 20-65 parts acrylate or methacrylate mixts. (B), 1-4.5 weight % (based on A + B) unsated. acid mixts., and ≤20% (on A + B) vinyl monomer mixts. are emulsion copolymd. at pH <5 in the presence of 4-8% (on monomers) surfactants to give the title emulsions useful as binders and adhesives. For example, 10.2 g Triton X-200 and 15 g Nonion NS-230 in 323 g H2O are mixed with 0.6 g silicone defoaming agent, heated to 70° under N, and initially mixed at 75° with 5% of a mixture of vinyl acetate 123, acrylonitrile 6, Bu acrylate 171, acrylic acid 10.5, and glycidyl methacrylate 6 g and with 30% of a solution of 0.9 g K2S2O8 in 80 g H2O; the whole was stirred 30 min. The remainder of the monomer mixture was added dropwise during 3 hr, the whole heated to 80°, and the rest of the catalyst solution added dropwise during 10 min. The product is kept 1 hr at 80°, cooled to 35°, mixed with 0.6 g silicone defoaming agent (50% solids), and adjusted to pH 3.5 with NaHCO3 to give an emulsion (44% solids, 0.52% residual monomer, 20 cP viscosity, and 0.1-0.3 μ particle size, and 34.5 dynes/cm surface tension.) The emulsion is adjusted to pH 6, mixed with 10 weight % (on solids) SM-700 (etherified methylolmelamine) and 1 weight % (on solids) hardening agent, poured on a substrate, and cured 20 min at 150° to give a coating with 11 kg/cm2 elastic modulus and 85% insol. after 8 hr boiling in trichloroethylene.
INCL 26B131

CC 36 (Plastics Manufacture and Processing)
ST emulsion self crosslinking resin; crosslinkable resin; vinyl acetate copolymer; acrylonitrile copolymer; glycidyl methacrylate copolymer; methacrylate glycidyl copolymer
IT Adhesives, preparation
Binding materials
(butyl acrylate copolymers, crosslinked)
IT Crosslinking
(of butyl acrylate copolymer emulsions, for adhesives and binders)
IT 30640-80-3P, preparation
RL: PREP (Preparation)
(manufacture of, for adhesives and binders)
IT 30640-80-3P, preparation
RL: PREP (Preparation)
(manufacture of, for adhesives and binders)
RN 30640-80-3 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-(2-oxiranylmethyl) ester, polymer with butyl 2-propenoate, ethenyl acetate, 2-propenenitrile and 2-propenoic acid
(CA INDEX NAME)

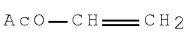
CM 1

CRN 141-32-2
CMF C7 H12 O2



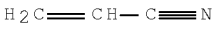
CM 2

CRN 108-05-4
CMF C4 H6 O2



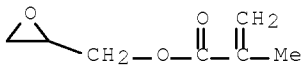
CM 3

CRN 107-13-1
CMF C3 H3 N



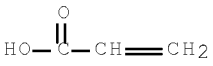
CM 4

CRN 106-91-2
CMF C7 H10 O3



CM 5

CRN 79-10-7
CMF C3 H4 O2



L95 ANSWER 62 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1971:4594 CAPLUS Full-text
DOCUMENT NUMBER: 74:4594
ORIGINAL REFERENCE NO.: 74:735a,738a
TITLE: Optically blued fibrous sheets
PATENT ASSIGNEE(S): Badische Anilin- & Soda-Fabrik AG
SOURCE: Fr. Demande, 10 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

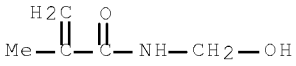
PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
FR 2012370	A1	19700320	FR 1969-22557		19690703 <--
PRIORITY APPLN. INFO.:			DE 1967-1769742	A	19680705 <--

GI For diagram(s), see printed CA Issue.
AB Sheets containing fibers of polycaprolactam (I), cellulose, or poly(ethylene terephthalate) are impregnated with bonding agents comprising aqueous dispersions of copolymers of Ia (R1 = H, R2 = R3 = Me) (II); R1 = Me, R2 = Bu, R3 = Et; or R1 = H, R2 = Me, R3 = Bu as optical bluing agents 0.1-10, crosslinking olefins 1-15, and other olefins 75-98.9% to give optically blue bonded sheets of good washfastness and dry cleaning solvent resistance. E.g., a I sheet was impregnated with a 20% aqueous dispersion of a copolymer prepared from Et acrylate 88, acrylic acid 1, HOCH2NHCOCMe:CH2 5, HO(CH2)4O2CCH:CH2 5, and II 1% to give .apprx.30% copolymer pick-up and dried at 150° to give washfast and perchloroethylene-resistant optical bluing to the sheet.
IC D06M015-00A; C08F015-00-
CC 39 (Textiles)
IT Binding materials
Fluorescent brightening agents
(dialkyl acrylamidoalkoxyterephthalate copolymers, for fibrous sheets)
IT 27288-65-9, uses and miscellaneous
RL: USES (Uses)
(binding materials, for fibrous sheets containing optical brightening agents)

IT 30351-70-3 30351-71-4 31227-01-7, uses and miscellaneous
RL: USES (Uses)
(optical brightening agents, for bonded fibrous sheets)
IT 27288-65-9, uses and miscellaneous
RL: USES (Uses)
(binding materials, for fibrous sheets containing optical brightening agents)
RN 27288-65-9 CAPLUS
CN 2-Propenoic acid, polymer with butyl 2-propenoate, ethenylbenzene and N-(hydroxymethyl)-2-methyl-2-propenamide (CA INDEX NAME)

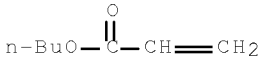
CM 1

CRN 923-02-4
CMF C5 H9 N O2



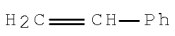
CM 2

CRN 141-32-2
CMF C7 H12 O2



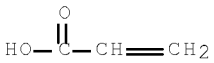
CM 3

CRN 100-42-5
CMF C8 H8



CM 4

CRN 79-10-7
CMF C3 H4 O2



IT 30351-70-3 30351-71-4 31227-01-7, uses

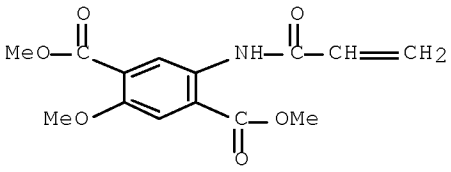
and miscellaneous
RL: USES (Uses)
(optical brightening agents, for bonded fibrous sheets)

RN 30351-70-3 CAPLUS

CN Terephthalic acid, 2-acrylamido-5-methoxy-, dimethyl ester, polymer with acrylic acid, N-(butoxymethyl)-2-methylacrylamide and ethyl acrylate (8CI) (CA INDEX NAME)

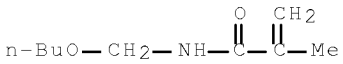
CM 1

CRN 28056-80-6
CMF C14 H15 N O6



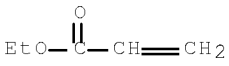
CM 2

CRN 5153-77-5
CMF C9 H17 N O2



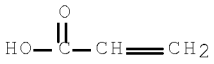
CM 3

CRN 140-88-5
CMF C5 H8 O2



CM 4

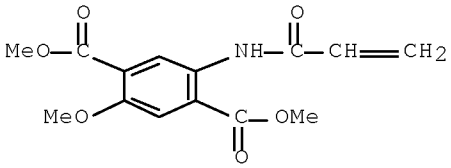
CRN 79-10-7
CMF C3 H4 O2



RN 30351-71-4 CAPLUS
CN Terephthalic acid, 2-acrylamido-5-methoxy-, dimethyl ester, polymer with acrylic acid, ethyl acrylate, 4-hydroxybutyl acrylate and N-(hydroxymethyl)-2-methylacrylamide (8CI) (CA INDEX NAME)

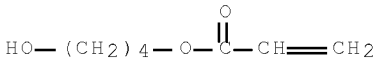
CM 1

CRN 28056-80-6
CMF C14 H15 N O6



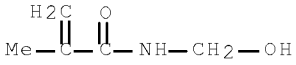
CM 2

CRN 2478-10-6
CMF C7 H12 O3



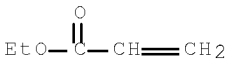
CM 3

CRN 923-02-4
CMF C5 H9 N O2



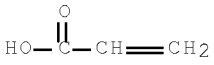
CM 4

CRN 140-88-5
CMF C5 H8 O2



CM 5

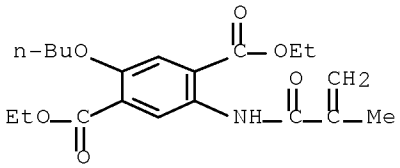
CRN 79-10-7
CMF C3 H4 O2



RN 31227-01-7 CAPLUS
CN Terephthalic acid, 2-butoxy-5-methacrylamido-, diethyl ester, polymer with acrylic acid, butyl acrylate, N-(hydroxymethyl)acrylamide, methacrylamide and styrene (8CI) (CA INDEX NAME)

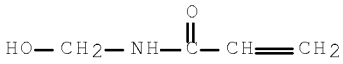
CM 1

CRN 28056-81-7
CMF C20 H27 N O6



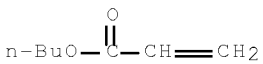
CM 2

CRN 924-42-5
CMF C4 H7 N O2



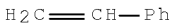
CM 3

CRN 141-32-2
CMF C7 H12 O2



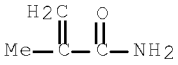
CM 4

CRN 100-42-5
CMF C8 H8



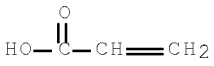
CM 5

CRN 79-39-0
CMF C4 H7 N O



CM 6

CRN 79-10-7
CMF C3 H4 O2



L95 ANSWER 63 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1970:436424 CAPLUS Full-text
DOCUMENT NUMBER: 73:36424
ORIGINAL REFERENCE NO.: 73:6025a,6028a
TITLE: Sheets of agglutinated fibers
PATENT ASSIGNEE(S): Badische Anilin- & Soda-Fabrik AG
SOURCE: Fr. Addn., 4 pp. Addn. to Fr. 1388473
CODEN: FAXXA3
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

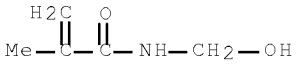
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 94667		19691003	FR	19680520 <--
DE 1594934			DE	
GB 1218649			GB	
PRIORITY APPLN. INFO.:			DE	19670520 <--

AB Sheets of agglutinated polyamide fibers with improved tensile strength are prepared by impregnating the fibers with aqueous dispersions of copolymers containing diallyl phthalate (I), dimethallyl terephthalate, or triallyl trimesate. For example, a copolymer prepared from Bu acrylate, acrylonitrile, N-methylolmethacrylamide, acrylic acid, I, and ammonium oxalate was used as the impregnation binder.
IC D06M; D04H
CC 39 (Textiles)
IT Binding materials
(allyl ester copolymers, for nylon fibers)

IT 28264-46-2, uses and miscellaneous 28264-75-7, uses and miscellaneous 28803-93-2
RL: USES (Uses)
(binding materials, for nylon fibers)
IT 28264-46-2, uses and miscellaneous 28803-93-2
RL: USES (Uses)
(binding materials, for nylon fibers)
RN 28264-46-2 CAPLUS
CN Phthalic acid, diallyl ester, polymer with acrylic acid, acrylonitrile, butyl acrylate and N-(hydroxymethyl)-2-methylacrylamide (8CI) (CA INDEX NAME)

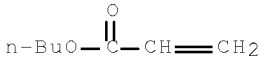
CM 1

CRN 923-02-4
CMF C5 H9 N O2



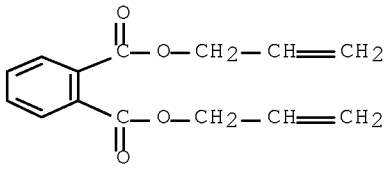
CM 2

CRN 141-32-2
CMF C7 H12 O2



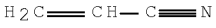
CM 3

CRN 131-17-9
CMF C14 H14 O4



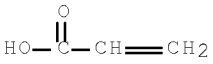
CM 4

CRN 107-13-1
CMF C3 H3 N



CM 5

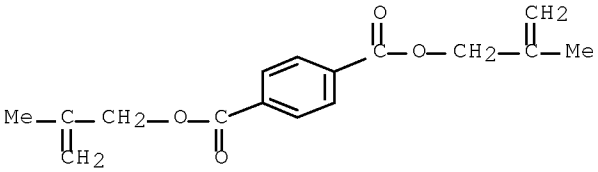
CRN 79-10-7
CMF C3 H4 O2



RN 28803-93-2 CAPLUS
CN Terephthalic acid, bis(2-methylallyl) ester, polymer with acrylic acid, ethylene acrylate, 2-ethylhexyl acrylate and N-(hydroxymethyl)-2-methylacrylamide (8CI) (CA INDEX NAME)

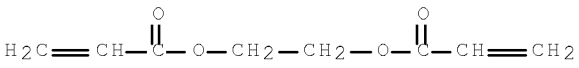
CM 1

CRN 2985-54-8
CMF C16 H18 O4



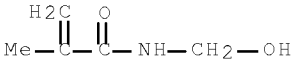
CM 2

CRN 2274-11-5
CMF C8 H10 O4



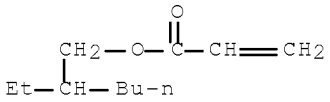
CM 3

CRN 923-02-4
CMF C5 H9 N O2



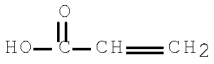
CM 4

CRN 103-11-7
CMF C11 H20 O2



CM 5

CRN 79-10-7
CMF C3 H4 O2



L95 ANSWER 64 OF 64 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1970:101790 CAPLUS Full-text
DOCUMENT NUMBER: 72:101790
ORIGINAL REFERENCE NO.: 72:18485a,18488a
TITLE: Binders for textile pigments
PATENT ASSIGNEE(S): Badische Anilin- & Soda-Fabrik AG
SOURCE: Fr. Demande, 7 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2003889		19691114	FR 1969-7123	19690313 <--
DE 1719395			DE	
GB 1210056			GB	

PRIORITY APPLN. INFO.: DE 19680314 <--

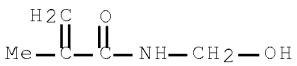
AB Poly(ammonium acrylates) (I) containing copolymd. butylene diacrylate (II), methyl-enedimethacrylamide, hexylene diacrylate, or allyl adipate, and butadiene-acrylonitrile-styrene - N-(hydroxymethyl)methacrylamide (II I) copolymer (12:3:4:1) (IV), butadiene-styrene-III copolymer (12:7:1), Bu acrylate-acrylonitrile-vinyl chloride-III copolymer (12:4:3:1), or butadiene-acrylonitrile-III copolymer (66.7:28.5:4.8) are used as binders for textile pigments to improve the washing and friction fastness of the textile. Thus, a mixture of 50 parts 20% Cu phthalocyanine and 950 parts of an aqueous mixture containing 5 parts I, copolymd. with 0.1% II, and 35 parts IV was used for printing cotton textile. The fabric was dried 5 min at 140° to give soft product with excellent friction resistance.

IC C08F; D06P

CC 39 (Textiles)
IT Binding materials
(acrylic acid polymer-methacrylamide derivative polymer, for pigments on textiles)
IT 25135-82-4, uses and miscellaneous 27288-64-8, uses and miscellaneous 27288-65-9, uses and miscellaneous 27288-66-0, uses and miscellaneous 27288-68-2, uses and miscellaneous
RL: USES (Uses)
(binders from acrylate copolymers containing, for pigments on textiles)
IT 27288-65-9, uses and miscellaneous
RL: USES (Uses)
(binders from acrylate copolymers containing, for pigments on textiles)
RN 27288-65-9 CAPLUS
CN 2-Propenoic acid, polymer with butyl 2-propenoate, ethenylbenzene and N-(hydroxymethyl)-2-methyl-2-propenamide (CA INDEX NAME)

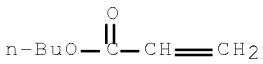
CM 1

CRN 923-02-4
CMF C5 H9 N O2



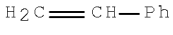
CM 2

CRN 141-32-2
CMF C7 H12 O2



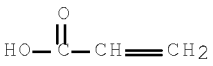
CM 3

CRN 100-42-5
CMF C8 H8



CM 4

CRN 79-10-7
CMF C3 H4 O2



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SEARCH HISTORY

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L7            50 SEA FILE=REGISTRY SPE=ON  ABB=ON  25155-30-0/CRN
L8             2 SEA FILE=REGISTRY SPE=ON  ABB=ON  ("GLYCIDYL METHACRYLATE"/CN
                 OR "GLYCIDYL METHACRYLATE HOMOPOLYMER"/CN)
L9             3 SEA FILE=REGISTRY POLYLINK L8
L10            3 SEA FILE=REGISTRY SPE=ON  ABB=ON  (L8 OR L9)
L11              SEL  L10 1- RN :       3 TERMS
L12        20962 SEA FILE=REGISTRY SPE=ON  ABB=ON  L11/CRN
L14          587 SEA FILE=REGISTRY SPE=ON  ABB=ON  923-02-4/CRN
L27        22795 SEA FILE=REGISTRY SPE=ON  ABB=ON  103-11-7/CRN
L28        54890 SEA FILE=REGISTRY SPE=ON  ABB=ON  141-32-2/CRN
L35         6225 SEA FILE=REGISTRY SPE=ON  ABB=ON  (L27 OR L28) AND (L14 OR L7
                 OR L12)



L7            50 SEA FILE=REGISTRY SPE=ON  ABB=ON  25155-30-0/CRN
L8             2 SEA FILE=REGISTRY SPE=ON  ABB=ON  ("GLYCIDYL METHACRYLATE"/CN
                 OR "GLYCIDYL METHACRYLATE HOMOPOLYMER"/CN)
L9             3 SEA FILE=REGISTRY POLYLINK L8
L10            3 SEA FILE=REGISTRY SPE=ON  ABB=ON  (L8 OR L9)
L11              SEL  L10 1- RN :       3 TERMS
L12        20962 SEA FILE=REGISTRY SPE=ON  ABB=ON  L11/CRN
L14          587 SEA FILE=REGISTRY SPE=ON  ABB=ON  923-02-4/CRN
L15              STR
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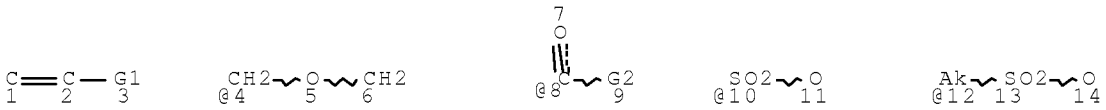


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VAR G1=4/8/10/12
VAR G2=N/O
NODE ATTRIBUTES:
CONNECT IS E1  RC AT  11
CONNECT IS E2  RC AT  12
CONNECT IS E1  RC AT  14
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  14

STEREO ATTRIBUTES: NONE
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L19       420517 SEA FILE=REGISTRY SSS FUL L15 AND L17
L20              STR
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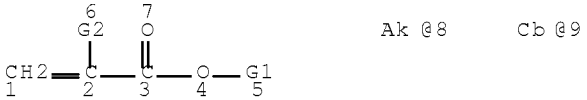
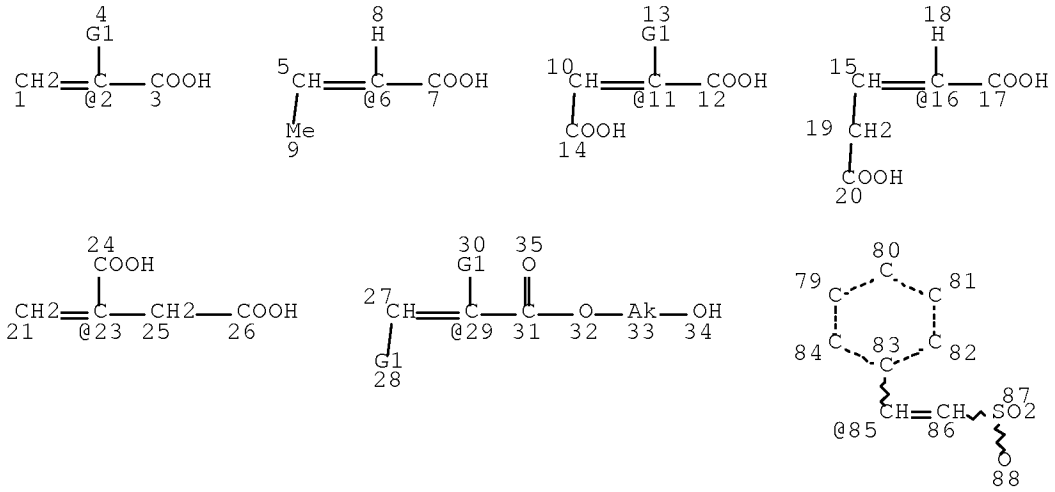



```
VAR G1=8/9
```

VAR G2=H/ME
NODE ATTRIBUTES:
CONNECT IS E1 RC AT 8
DEFAULT MLEVEL IS ATOM
GGCAT IS SAT AT 9
DEFAULT ECLEVEL IS LIMITED

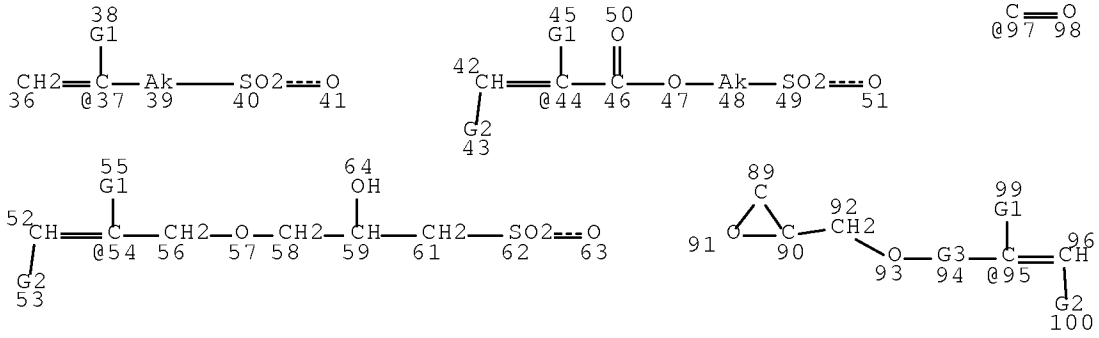
GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE
L22 198213 SEA FILE=REGISTRY SUB=L19 SSS FUL L20
L31 STR

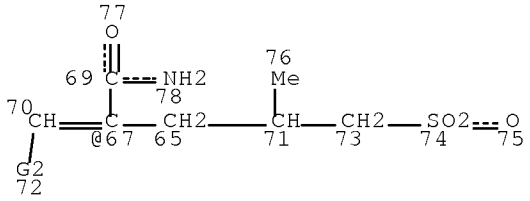


G4 101

Page 1-A



Page 2-A

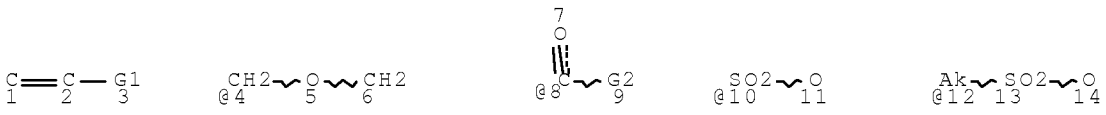


Page 3-A
VAR G1=H/ME
VAR G2=H/ME/COOH
VAR G3=CH2/97
VAR G4=2/6/11/16/23/29/37/44/54/85/67/95
NODE ATTRIBUTES:
CONNECT IS E2 RC AT 33
CONNECT IS E2 RC AT 39
CONNECT IS E1 RC AT 41
CONNECT IS E2 RC AT 48
CONNECT IS E1 RC AT 51
CONNECT IS E1 RC AT 63
CONNECT IS E1 RC AT 75
CONNECT IS E1 RC AT 88
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 97

STEREO ATTRIBUTES: NONE
L33   197550 SEA FILE=REGISTRY SUB=L19 SSS FUL L31
L34   48120 SEA FILE=REGISTRY SPE=ON ABB=ON 16.138/RID AND PMS/CI AND
                O>2
L36   112029 SEA FILE=REGISTRY SPE=ON ABB=ON L22 AND (L33 OR L34 OR L14
                OR L7 OR L12)

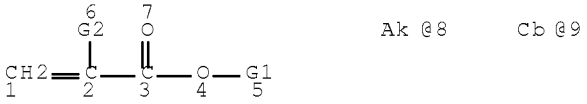
L7   50 SEA FILE=REGISTRY SPE=ON ABB=ON 25155-30-0/CRN
L14   587 SEA FILE=REGISTRY SPE=ON ABB=ON 923-02-4/CRN
L15   STR



VAR G1=4/8/10/12
VAR G2=N/O
NODE ATTRIBUTES:
CONNECT IS E1 RC AT 11
CONNECT IS E2 RC AT 12
CONNECT IS E1 RC AT 14
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 14

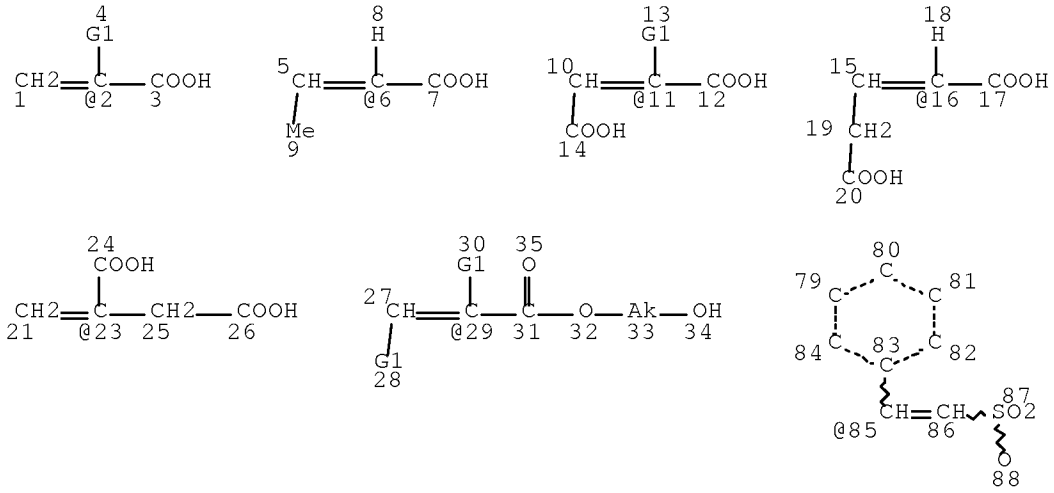
STEREO ATTRIBUTES: NONE
L17 SCR 2043
L19 420517 SEA FILE=REGISTRY SSS FUL L15 AND L17
L20 STR



VAR G1=8/9
VAR G2=H/ME
NODE ATTRIBUTES:
CONNECT IS E1 RC AT 8
DEFAULT MLEVEL IS ATOM
GGCAT IS SAT AT 9
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE
L22 198213 SEA FILE=REGISTRY SUB=L19 SSS FUL L20
L31 STR



G4 101

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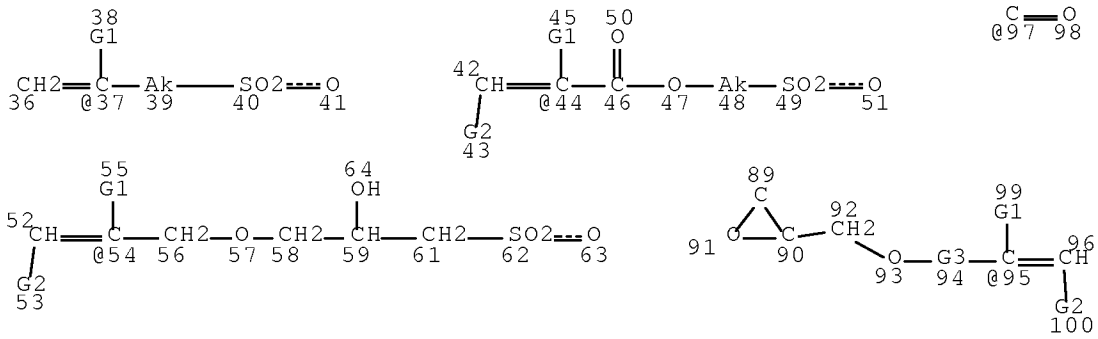

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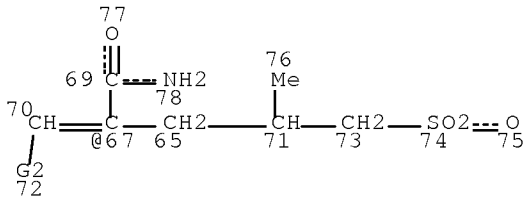

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VAR G1=H/ME
VAR G2=H/ME/COOH
VAR G3=CH2/97
VAR G4=2/6/11/16/23/29/37/44/54/85/67/95
NODE ATTRIBUTES:
CONNECT IS E2 RC AT 33
CONNECT IS E2 RC AT 39
CONNECT IS E1 RC AT 41
CONNECT IS E2 RC AT 48
CONNECT IS E1 RC AT 51
CONNECT IS E1 RC AT 63
CONNECT IS E1 RC AT 75
CONNECT IS E1 RC AT 88
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 97

STEREO ATTRIBUTES: NONE
L33   197550 SEA FILE=REGISTRY SUB=L19 SSS FUL L31
L34   48120 SEA FILE=REGISTRY SPE=ON ABB=ON 16.138/RID AND PMS/CI AND
                O>2
L38   296 SEA FILE=REGISTRY SPE=ON ABB=ON L22 AND (L34 OR L33) AND
                (L14 OR L7)

     (FILE 'HOME' ENTERED AT 15:04:08 ON 29 MAR 2010)
                D SAVED

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     FILE 'REGISTRY' ENTERED AT 15:05:29 ON 29 MAR 2010
                ACT PEZ676REG/A
                ---------
L1             6 SEA SPE=ON  ABB=ON  (35919-18-7/BI OR 37001-63-1/BI OR
                  42884-82-2/BI OR 53754-89-5/BI OR 58479-12-2/BI OR 69572-24-3/B
                  I)
                ---------
                  ACT PEZ676REG2/A
                ---------
L2            50 SEA SPE=ON  ABB=ON  (12190-79-3/BI OR 518050-52-7/BI OR
                  7440-44-0/BI OR 7782-42-5/BI OR 105-58-8/BI OR 108-32-7/BI OR
                  198826-55-0/BI OR 24968-79-4/BI OR 25036-16-2/BI OR 25134-58-1/
                  BI OR 25214-69-1/BI OR 25511-01-7/BI OR 25749-57-9/BI OR
                  26636-08-8/BI OR 26950-51-6/BI OR 27290-61-5/BI OR 27380-08-1/B
                  I OR 28326-46-7/BI OR 30396-85-1/BI OR 31213-82-8/BI OR
                  35919-18-7/BI OR 37001-63-1/BI OR 411234-54-3/BI OR 42884-82-2/
                  BI OR 43094-74-2/BI OR 4437-85-8/BI OR 518050-53-8/BI OR
                  518050-54-9/BI OR 518050-55-0/BI OR 518050-56-1/BI OR 518050-57
                  -2/BI OR 518050-58-3/BI OR 53754-89-5/BI OR 58479-12-2/BI OR
                  616-38-6/BI OR 623-53-0/BI OR 69572-24-3/BI OR 716378-75-5/BI
                  OR 716378-76-6/BI OR 716378-77-7/BI OR 7440-06-4/BI OR
                  7440-21-3/BI OR 7440-42-8/BI OR 7440-50-8/BI OR 872-36-6/BI OR
                  882693-00-7/BI OR 9003-18-3/BI OR 9003-55-8/BI OR 9004-32-4/BI
                  OR 96-49-1/BI)
                ---------
                  D SCA L1
L3             0 SEA SPE=ON  ABB=ON  L2 AND S/ELS
                  E SODIUM DODECYLBENZENESULFONATE/CN
L4             1 SEA SPE=ON  ABB=ON  "SODIUM DODECYLBENZENESULFONATE"/CN
                  D SCA
                  E  BENZENESULFONIC ACID, DODECYL-, SODIUM SALT/CN
                  E  2-BENZENESULFONIC ACID, DODECYL-, SODIUM SALT/CN
L5             1 SEA SPE=ON  ABB=ON  "2-BENZENESULFONYL-4-(2-((TERT-BUTOXYCARBON
                  YL)(METHYL)AMINO)ETHOXY)INDOLE-1-CARBOXYLIC ACID TERT-BUTYL
                  ESTER"/CN
                  D SCA
                  E  BENZENESULFONIC ACID, DODECYL-, SODIUM SALT/CN
L6             1 SEA SPE=ON  ABB=ON  "BENZENESULFONIC ACID, DODECYL-, SODIUM
                  SALT, COMPD. WITH 2-(DIMETHYLAMINO)ETHYL 2-METHYL-2-PROPENOATE
                  HOMOPOLYMER AND N,N'-METHYLENEBIS(2-PROPENAMIDE) POLYMER WITH
                  2-PROPENOIC ACID SODIUM SALT"/CN
                  D SCA
                  D IDE L4
L7            50 SEA SPE=ON  ABB=ON  25155-30-0/CRN
                  E GLYCIDYL METHACRYLATE/CN
L8             2 SEA SPE=ON  ABB=ON  ("GLYCIDYL METHACRYLATE"/CN OR "GLYCIDYL
                  METHACRYLATE HOMOPOLYMER"/CN)
                  D SCA
L*** DEL       1 S L8 AND RELATED POLYMERS/FA
L*** DEL     ANALYZE L*** 1- RN LNK$ :       2 TERMS
L*** DEL       2 S L***
L9             3 POLYLINK L8
                  D SCA
L10            3 SEA SPE=ON  ABB=ON  (L8 OR L9)
                  SET SMARTSELECT ON
L11               SEL L10 1- RN :       3 TERMS
                  SET SMARTSELECT OFF
L12        20962 SEA SPE=ON  ABB=ON  L11/CRN
                  D COST FULL
                  E N-METHYLOLMETHACRYLATE/CN
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                E N-METHYLOLMETHACRYLAMIDE/CN
L13           1 SEA SPE=ON  ABB=ON  N-METHYLOLMETHACRYLAMIDE/CN
                D SCA
                D REG L13
L14         587 SEA SPE=ON  ABB=ON  923-02-4/CRN
L15             STR
L16          50 SEA SSS SAM L15
L17             SCREEN 2043
L18          50 SEA SSS SAM L15 AND L17
L19      420517 SEA SSS FUL L15 AND L17
L20             STR
L21          50 SEA SUB=L19 SSS SAM L20
L22      198213 SEA SUB=L19 SSS FUL L20
                SAVE TEMP L22 PEZ676SUB1/A
L23       24539 SEA SPE=ON  ABB=ON  L22 AND C11H20O2
L24       59534 SEA SPE=ON  ABB=ON  L22 AND C7H12O2
L25           5 SEA SPE=ON  ABB=ON  L1 AND L23
                D IDE
L26           1 SEA SPE=ON  ABB=ON  L24 AND L1
                D IDE
L27       22795 SEA SPE=ON  ABB=ON  103-11-7/CRN
L28       54890 SEA SPE=ON  ABB=ON  141-32-2/CRN
L29             STR

     FILE 'STNGUIDE' ENTERED AT 15:36:21 ON 29 MAR 2010

     FILE 'REGISTRY' ENTERED AT 15:43:08 ON 29 MAR 2010
L30             STR L29

     FILE 'STNGUIDE' ENTERED AT 15:44:09 ON 29 MAR 2010

     FILE 'REGISTRY' ENTERED AT 15:55:04 ON 29 MAR 2010
L31             STR L30
L32          50 SEA SUB=L19 SSS SAM L31
L33      197550 SEA SUB=L19 SSS FUL L31
                SAVE TEMP L33 PEZ676SUB2/A
                E 16.138/RID
L34       48120 SEA SPE=ON  ABB=ON  16.138/RID AND PMS/CI AND O>2
L35        6225 SEA SPE=ON  ABB=ON  (L27 OR L28) AND (L14 OR L7 OR L12)
L36      112029 SEA SPE=ON  ABB=ON  L22 AND (L33 OR L34 OR L14 OR L7 OR L12)
L37        6225 SEA SPE=ON  ABB=ON  L35 AND NC>1
L38         296 SEA SPE=ON  ABB=ON  L22 AND (L34 OR L33) AND (L14 OR L7)

     FILE 'CAPLUS' ENTERED AT 16:09:31 ON 29 MAR 2010
                ACT PEZ676CAAU/A
               ---------
L39 (      8848)SEA SPE=ON  ABB=ON  MORI H?/AU
L40 (       848)SEA SPE=ON  ABB=ON  YAMAKAWA M?/AU
L41 (         8)SEA SPE=ON  ABB=ON  FUKUMINE M?/AU
L42 (       124)SEA SPE=ON  ABB=ON  TOKURA K?/AU
L43 (        16)SEA SPE=ON  ABB=ON  L39 AND (L40 OR L41 OR L42)
L44 (        10)SEA SPE=ON  ABB=ON  L43 NOT BOMBYX/OBI
L45           7 SEA SPE=ON  ABB=ON  L44 AND (ELECTRODE#/OBI OR BATTER?/OBI)
               ---------
L46         281 SEA SPE=ON  ABB=ON  L38
L47           0 SEA SPE=ON  ABB=ON  L45 AND L46
L48       64955 SEA SPE=ON  ABB=ON  CAPACITOR#/CW
                E BINDERS+ALL/CT
L49       40291 SEA SPE=ON  ABB=ON  BINDERS+OLD/CT
L50           1 SEA SPE=ON  ABB=ON  L38 AND L48 AND L49
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L51          28 SEA SPE=ON  ABB=ON  L46 AND (L48 OR L49)
L52        5714 SEA SPE=ON  ABB=ON  L35
L53       92433 SEA SPE=ON  ABB=ON  L36
L54           1 SEA SPE=ON  ABB=ON  L52 AND L48 AND L49
L55          14 SEA SPE=ON  ABB=ON  L53 AND L48 AND L49
L56      366578 SEA SPE=ON  ABB=ON  (CROSSLINK? OR CROSS LINK?)/BI
L57        1728 SEA SPE=ON  ABB=ON  L52 AND L56
L58          50 SEA SPE=ON  ABB=ON  L52 AND L56 AND (L48 OR L49)
L59      277497 SEA SPE=ON  ABB=ON  L22
L60      235906 SEA SPE=ON  ABB=ON  L33
L61       67665 SEA SPE=ON  ABB=ON  L34
L62         735 SEA SPE=ON  ABB=ON  L14
L63          59 SEA SPE=ON  ABB=ON  L7
L64       23391 SEA SPE=ON  ABB=ON  L12
L65           5 SEA SPE=ON  ABB=ON  L45 AND (L59 OR L60 OR L61 OR L62 OR L63
                OR L64)
                D SCA
L66      197281 SEA SPE=ON  ABB=ON  ELECTRODE#/CW
L67       44983 SEA SPE=ON  ABB=ON  (DOUBLE LAYER?)/BI
L68         341 SEA SPE=ON  ABB=ON  (L46 OR L52 OR L53) AND L66
L69         130 SEA SPE=ON  ABB=ON  (L46 OR L52 OR L53) AND L67
L70         104 SEA SPE=ON  ABB=ON  (L46 OR L52 OR L53) AND L48
L71        1808 SEA SPE=ON  ABB=ON  (L46 OR L52 OR L53) AND L49
L72       17744 SEA SPE=ON  ABB=ON  (L46 OR L52 OR L53) AND L56
L73         126 SEA SPE=ON  ABB=ON  L68 AND (L69 OR L70 OR L71 OR L72)
L74          37 SEA SPE=ON  ABB=ON  L69 AND (L70 OR L71 OR L72)
L75          28 SEA SPE=ON  ABB=ON  L70 AND (L71 OR L72)
L76         349 SEA SPE=ON  ABB=ON  L71 AND L72
L77          25 SEA SPE=ON  ABB=ON  L73 AND (L74 OR L75 OR L76)
L78           4 SEA SPE=ON  ABB=ON  L74 AND (L75 OR L76)
L79           2 SEA SPE=ON  ABB=ON  L75 AND L76
L80          26 SEA SPE=ON  ABB=ON  (L77 OR L78 OR L79)
L81          60 SEA SPE=ON  ABB=ON  (L73 OR L74 OR L75 OR L76) AND L52
L82         509 SEA SPE=ON  ABB=ON  (L73 OR L74 OR L75 OR L76) AND L53
L83          12 SEA SPE=ON  ABB=ON  (L73 OR L74 OR L75 OR L76) AND L46
L84          60 SEA SPE=ON  ABB=ON  (L73 OR L74 OR L75 OR L76) AND L52 AND L53

L85           0 SEA SPE=ON  ABB=ON  L62 AND L63 AND L64
L86          60 SEA SPE=ON  ABB=ON  L35 AND (L73 OR L74 OR L75 OR L76)
L87         106 SEA SPE=ON  ABB=ON  (L58 OR L55 OR L51 OR L80 OR L83 OR L86)
L88         102 SEA SPE=ON  ABB=ON  L87 AND PATENT/DT
L89           4 SEA SPE=ON  ABB=ON  L87 NOT L88
L90          60 SEA SPE=ON  ABB=ON  L88 AND (PD<20031024 OR AD<20031024 OR
                PRD<20031024)

     FILE 'REGISTRY' ENTERED AT 16:33:48 ON 29 MAR 2010
                D STAT QUE L35
                D STAT QUE L36
                D STAT QUE L38

     FILE 'CAPLUS' ENTERED AT 16:33:59 ON 29 MAR 2010
                D QUE NOS L58
                D QUE NOS L55
                D QUE NOS L51
                D QUE NOS L80
                D QUE NOS L83
                D QUE NOS L86
L91         106 SEA SPE=ON  ABB=ON  (L58 OR L55 OR L51 OR L80 OR L83 OR L86)
L92         102 SEA SPE=ON  ABB=ON  L91 AND PATENT/DT
L93           4 SEA SPE=ON  ABB=ON  L91 NOT L92
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L94          60 SEA SPE=ON  ABB=ON  L92 AND (PD<20031024 OR AD<20031024 OR
                PRD<20031024)
L95          64 SEA SPE=ON  ABB=ON  (L93 OR L94)
                D IBIB ABS HITIND HITSTR L95 1-64

     FILE 'HOME' ENTERED AT 16:36:24 ON 29 MAR 2010
                D STAT QUE L35
                D STAT QUE L36
                D STAT QUE L38

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